Aspire One 522

SERVICEGUIDE



Revision History

Refer to the table below for the updates made to this service guide.

Date	Chapter	Updates

Service guide files and updates are available on the ACER/CSD Website. For more information, go to http://csd.acer.com.tw. The information in this guide is subject to change without notice.

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Conventions

The following conventions are used in this manual:

WARNING:

Indicates a potential for personal injury.

CAUTION:

Indicates a potential loss of data or damage to equipment.

\+ **IMPORTANT:**

Indicates information that is important to know for the proper completion of a procedure, choice of an option, or completing a task.

The following typographical conventions are used in this document:

- Book titles, directory names, file names, path names, and program/process names are shown in *italics*.

  Example:

  the *DRS5 User's Guide*

  /usr/local/bin/fd

  the */TPH15spool_M* program

- Computer output (text that represents information displayed on a computer screen, such as menus, prompts, responses to input, and error messages) are shown in constant width.

  Example:

  `[01] The server has been stopped`

- User input (text that represents information entered by a computer user, such as command names, option letters, and words) are shown in constant width bold.

  Variables contained within user input are shown in angle brackets (< >).

  Example:

  At the prompt, type run **`<file name> -m`**

- Keyboard keys are shown in ***bold italics***.

  Example:

  After entering data, press ***Enter***.

General information

This service guide provides all technical information relating to the basic configuration for **Acer** global product offering. To better fit local market requirements and enhance product competitiveness, your regional office may have decided to extend the functionality of a machine (such as add-on cards, modems, or extra memory capabilities). These localized features are not covered in this generic service guide. In such cases, contact your regional offices or the responsible personnel/channel to provide further technical details.

When ordering FRU parts:

Check the most up-to-date information available on your regional Web or channel. If, for whatever reason, a part number change is made, it may not be noted in this printed service guide.

Acer-authorized Service Providers:

Your Acer office may have a different part number code than those given in the FRU list in this service guide. The list provided by your regional Acer office must be used to order FRU parts for repair and service of customer machines.

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Hardware Specifications

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Model Definition and Configuration

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Online Support Information

CHAPTER 1
Hardware Specifications

Hardware Specifications and Configurations

Features

The following is a summary of the computer's many features:

Operating System

- Genuine Windows® 7 Home Basic 32-bit (China only)
- Genuine Windows® 7 Starter

Platform

- AMD C-Series processor C-50 (1 MB L2 cache, 1 GHz, DDR3 1066 MHz, 9 W)
- AMD A50M Fusion™ Controller Hub

System Memory

- Single-channel DDR3 SDRAM support with one soDIMM module
  - Up to 1 GB of DDR3 system memory (for Windows® 7 Starter for small notebook PCs)
  - Up to 2 GB of DDR3 system memory (for other operating systems)

Display

- 10.1" HD 1280 x 720 (WXGA) resolution, high-brightness (200-nit) LED-backlit TFT LCD
- Mercury-free, environment-friendly

Storage Subsystem

- Hard disk drive:
  - 2.5" (9.5 mm) 160/250 GB
- Multi-in-1 card reader, supporting:
  - Secure Digital™ (SD) Card, MultiMediaCard™ (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)
  - Storage cards with adapter: miniSD™, microSD™, Memory Stick Duo™, Reduced-Size Multimedia Card (RS-MMC), Memory Stick PRO Duo™

Audio Subsystem

- High-definition audio support
- One built-in stereo speaker
- MS-Sound compatible
- Built-in digital microphone

Graphics

- ATI Radeon™ HD 6250 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 3 (UVD3), OpenCL® 1.1, OpenGL® 3.1, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11
- Dual independent display support
- 16.7 million colors
- External resolution / refresh rates:
  - VGA port up to 1920 x 1200: 60 Hz
  - HDMI® port up to 1920 x 1080: 60 Hz
- MPEG-2 DVD decoding
- WMV9 (VC-1) and H.264 (AVC) decoding
- HDMI® (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Privacy Control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

Optical Media Drive (N/A)

Communication

Webcam

- Acer Video Conference, featuring:
  - Acer Crystal Eye webcam with 1280 x 1024 resolution
  - Acer Video Conference Manager software, featuring Video Quality Enhancement (VQE) technology, supporting 640 x 480 resolution online video calls

WLAN:

- Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™
- Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™ (available only in Russia, Pakistan, Ukraine)
- Supporting Acer SignalUp™ wireless technology

WPAN:

- Bluetooth® 3.0+HS (for Windows® 7 only)

WWAN:

- UMTS/HSPA at 850/900/1900/2100 MHz and quad-band GSM/GPRS/EDGE at 850/900/1800/1900 MHz, upgradable to 7.2 Mb/s HSDPA and 5.7 Mb/s HSUPA (for 3G model)

LAN:

- Fast Ethernet

Dimension and Weight

Dimensions

- 258.5 (W) x 185 (D) x 25.7 (H) mm (10.17 x 7.28 x 1.01 inches)

Weight

- 1.30 kg (2.87 lbs.) with 6-cell battery pack
- 1.20 kg (2.65 lbs.) with 3-cell battery pack

Power Adapter and Battery

- Product Safety Electric Appliance and Materials (PSE) certified for battery pack

Power adapter

- 2-pin 40 W Acer MiniGo AC adapter:
  - 93.2 (W) x 32.2 (D) x 42.5 (H) mm (3.66 x 1.26 x 1.67 inches)
  - 180 g (0.39 lbs.) with 250 cm DC cable

Battery

- 24.4 W 2200 mAh 3-cell Li-ion battery pack
  - Battery life: 3 hours
- 48 W 4400 mAh 6-cell Li-ion battery pack
  - Battery life: 6 hours

I/O Ports

- Multi-in-1 card reader
- Three USB 2.0 ports
- External display (VGA) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter
- HDMI® port with HDCP support

Special Keys and Controls

Keyboard

- 84-/85-/88-key Acer FineTip keyboard, 93% of full-size keyboard, with international language support

Touchpad

- Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip

Environment

- ENERGY STAR®
- WEEE
- RoHS
- Mercury free

Temperature:

- Operating: 5 °C to 35 °C
- Non-operating: -20 °C to 65 °C

Humidity (non-condensing):

- Operating: 20% to 80%
- Non-operating: 20% to 80%

Warranty

- One-year International Travelers Warranty (ITW)

Optional Items

In-box:

- Protective bag
- 6-cell Li-ion battery pack

Optional:

- 1 GB / 2 GB DDR3 1066 MHz soDIMM module
- 6-cell Li-ion battery pack
- 2-pin 40 W Acer MiniGo AC adapter
- External USB HDD
- External USB optical disc drive

Software

Productivity

- Acer ePower Management
- Acer eRecovery Management
- Adobe® Flash® Player 10.1
- Adobe® Reader® 9.1
- eSobi™
- Barnes & Noble Desktop Reader (US only)
- Bing™ Bar
- Microsoft® Office 2010 preloaded (purchase a product key to activate)
- Microsoft® Office Starter 2010
- New York Times Reader (US only)
- Norton™ Online Backup

Security

- McAfee® Internet Security Suite Trial
- MyWinLocker® (except China, Hong Kong)

Gaming

- Oberon GameZone (except US, Canada, China, Hong Kong, Korea)
- WildTangent® (US, Canada only)

Communication and ISP

- Acer Crystal Eye
- Acer Video Conference Manager
- Microsoft® Silverlight™
- Skype™
- Windows Live™ Essentials

Web links and utilities

- Acer Accessory Store1 (Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, UK only)
- Acer Identity Card
- Acer Registration
- Acer Updater
- Customized Internet Explorer®
- eBay® shortcut 2009 (Canada, France, Germany, Italy, Mexico, Spain, UK, US only)
- Netflix shortcut (US only)

Notebook Tour

Top View

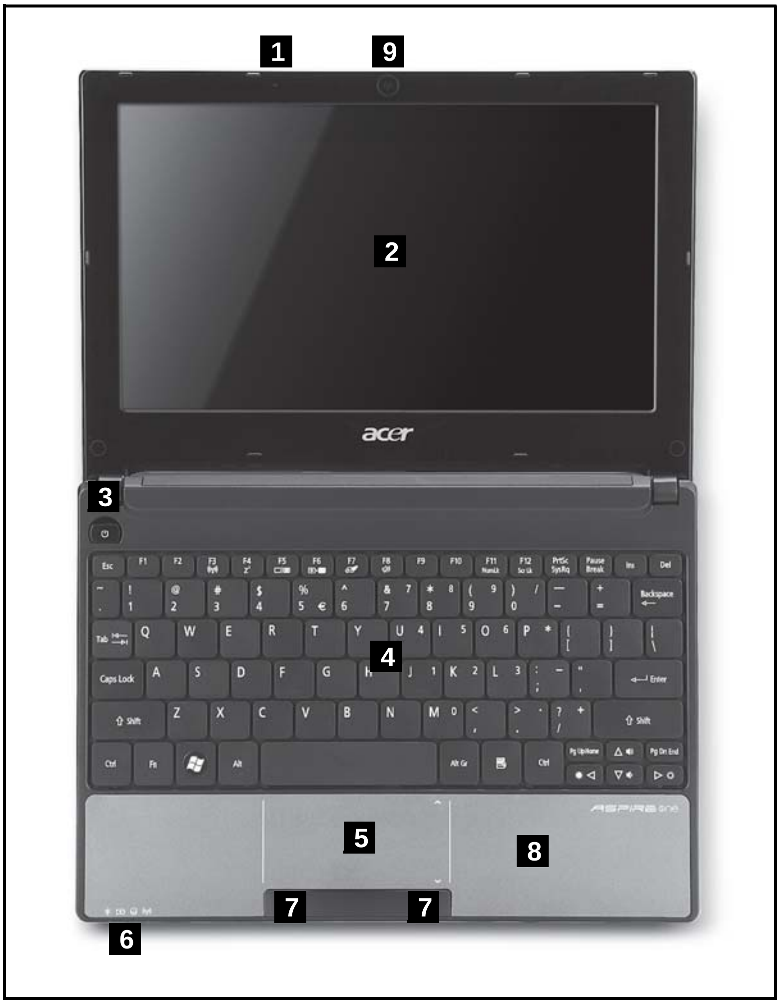


Figure 1-1. Top View

Table 1-1. Top View

#	Icon	Item	Description
1		Microphone	Internal microphone for sound recording.
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output (Configuration may vary by models).
3		Power button	Turns the computer on and off.

Table 1-1. Top View (Continued)

#	Icon	Item	Description
4		Keyboard	For entering data into your computer.
5		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
6		Status Indicators*	
7		Click buttons (left and right)	The left and right buttons function like the left and right mouse buttons.
8		Palmrest	Microphone Internal microphone for sound recording.
9		Acer Crystal Eye webcam	Web camera for video communication (only for certain models).
* The front panel indicators are visible even when the computer cover is closed.			

Closed Front View



Figure 1-2. Front View

Table 1-2. Front View

#	Icon	Item	Description
1		Power indicator	Indicates the computer's power status.
		Battery indicator	Indicates the computer's battery status. • Charging: The light shows amber when the battery is charging. • Fully charged: The light shows blue when in AC mode.
		HDD indicator	Indicates when the hard disk drive is active.
		Communication indicator	Indicates the status of 3G/Wireless LAN communication **Blue light on:** • 3G on / Wi-Fi on • 3G on / Wi-Fi off **Orange light on:** • 3G off / Wi-Fi on **Not lit:** • 3G off / Wi-Fi off

Rear View

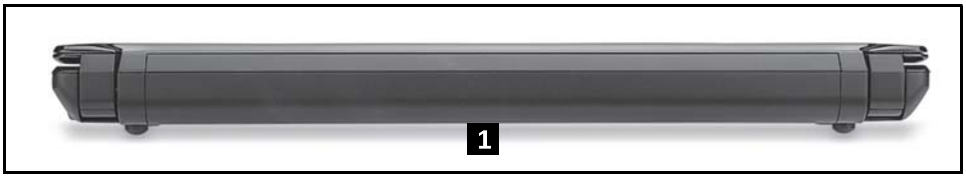


Figure 1-3. Rear View

Table 1-3. Rear View

#	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.

NOTE:
Your computer may be equipped with a different battery to the one in the picture.

Left View



Figure 1-4. Left View

Table 1-4. Left View

#	Icon	Item	Description
1		DC-in jack	Connects to an AC adapter.
2		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
3		USB 2.0 ports	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).
4	HDMI	HDMI port	Supports high-definition digital video connections.

Right View

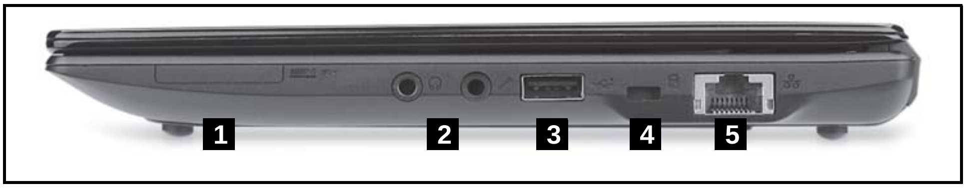


Figure 1-5. Right View

Table 1-5. Right View

#	Icon	Item	Description
1		2-in-1 card reader	Accepts Secure Digital (SD) and MultiMediaCard (MMC). **NOTE:** Push to remove/install the card. Only one card can operate at any given time.
2		Headphones/ speaker/ line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).
		Microphone jack	Accepts inputs from external microphones.
3		USB 2.0 port	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).
4		Kensington lock slot	Connects to a Kensington-compatible computer security lock.
5		Ethernet (RJ-45) port	Connects to an Ethernet 10/100 based network.

Base View



Figure 1-6. Base View

Table 1-6. Base View

#	Icon	Item	Description
1		Ventilation slots and cooling fan	Enable the computer to stay cool, even after prolonged use. **NOTE:** Do not cover or obstruct the opening of the fan.
2		Battery release latch/ lock	Releases the battery for removal.
3		3G SIM card slot	Accepts a 3G SIM card for 3G connectivity (only for certain models).
4		Battery bay	Houses the computer's battery pack.

Table 1-6. Base View (Continued)

#	Icon	Item	Description
5		Battery lock	Locks the battery in position.
6		Speaker	Emits audio from your computer.

Touchpad Basics

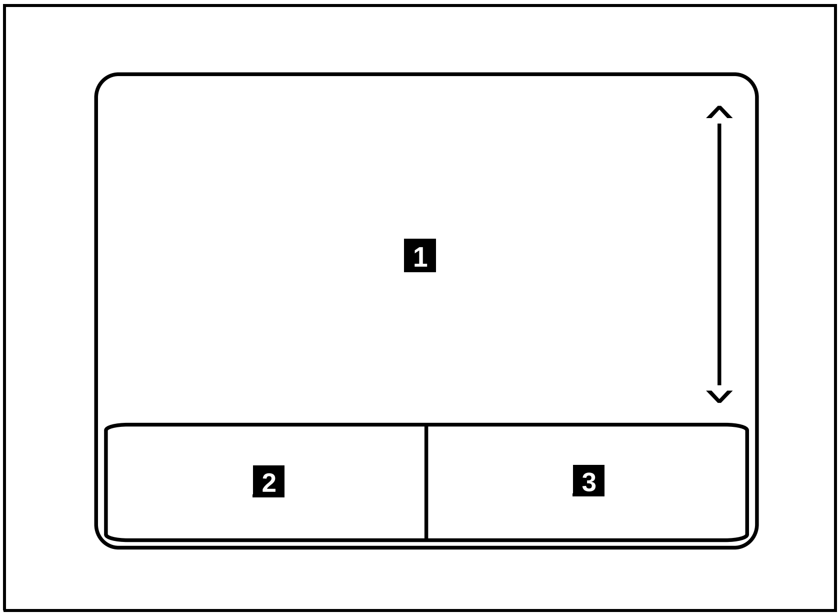


Figure 1-7. Touchpad

- Move your finger across the Touchpad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the Touchpad to perform selection and execution functions. These two buttons are the equivalent of the left and right buttons on a mouse. Tapping on the Touchpad is the same as clicking the left button.

Table 1-7. Touchpad

Function	Main TouchPad (1)	Left Button (2)	Right Button (3)
Execute	Tap twice (at the same speed as double-clicking a mouse button).	Quickly click twice.	
Select	Tap once.	Click once.	
Drag	Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the TouchPad on the second tap and drag the cursor.	Click and hold, then use finger on the Touchpad to drag the cursor.	
Access context menu			Click once.

NOTE:
When using the TouchPad, keep it - and fingers - dry and clean. The TouchPad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the TouchPad's responsiveness.



Figure 1-8. Keyboard Lock Keys

The keyboard has three lock keys which can be toggled on and off. (Table 1-8)

Table 1-8. Keyboard Lock Keys

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when doing a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock <Fn> + <F12>	When Scroll Lock is on, the screen moves one line up or down when the up or down arrow keys are pressed respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the key caps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys. (Table 1-9)

Table 1-9. Embedded Numeric Keypad

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows Keys

The keyboard has two keys that perform Windows-specific functions.

- Windows Logo key
- Application key

Table 1-10. Windows Keys

Key	Description
Windows Logo key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions. **Functions supported by Windows XP, Windows Vista, and Windows 7:** <>: Open or close the Start menu <> + <R>: Open the Run dialog box <> + <M>: Minimizes all windows <SHIFT> + <> + M: Undo minimize all windows <> + <F1>: Show the help window <> + <E>: Open Windows Explorer <> + <F>: Search for a file or folder <> + <D>: Show the desktop <CTRL> + <> + <F>: Search for computers (if you are on a network) <> + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <CTRL> + <> + <TAB>: Moves focus from Start menu, to the Quick Launch toolbar, to the system tray (use RIGHT ARROW or LEFT ARROW to move focus to items on the Quick Launch toolbar and the system tray) <> + <TAB>: Cycle through programs on the taskbar <> + <BREAK>: Display the System Properties dialog box **Functions supported by Windows XP:** <> + <BREAK>: Show the System Properties dialog box <> + <U>: Open Ease of Access Center
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hotkeys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness and volume output.



Figure 1-9. Keyboard Hotkeys

To activate hotkeys, press and hold the <Fn> key before pressing the other key in the hotkey combination.

Table 1-11. Keyboard Hotkeys

Hot key	Icon	Function	Description
<Fn> + <F3>		Communication switch	Enables/disables the computer's communication devices. (Communication devices may vary by configuration.)
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.

Table 1-11. Keyboard Hotkeys (Continued)

Hot key	Icon	Function	Description
<Fn> + <F11>		Num Lock	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad. **<Fn> + <F11> only for certain models.**
<Fn> + <F12>		Scroll Lock	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁ >		Brightness down	Decreases the screen brightness.
<Fn> + <△>		Volume up	Increases audio volume.
<Fn> + <▽>		Volume down	Decreases audio volume.

Using the Communication Key

Here you can enable and disable the various wireless connectivity devices on your computer.

Press ***Fn*** + ***F3*** to bring up the Launch Manager window panel. (Figure 1-10)

A red toggle indicates the device is off. Click On to enable wireless/Bluetooth connection. Click Off to disable connection.



Figure 1-10. Launch Manager Dialog

NOTE:
Communication devices may vary by model.

System Block Diagram

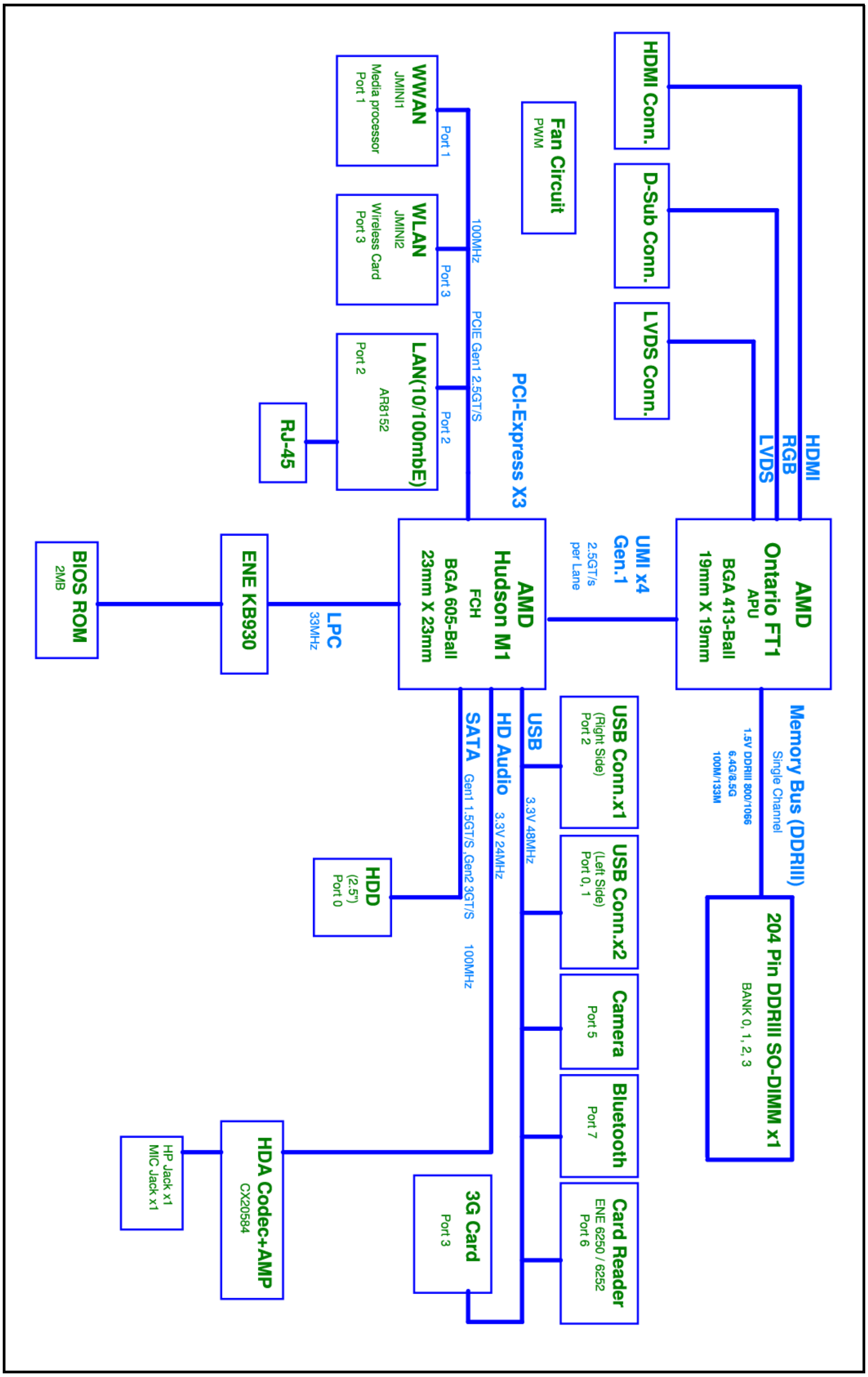


Figure 1-11. System Block Diagram

Specification Tables

Computer specifications

Item	Metric	Imperial
Dimensions		
Length	258.5mm	10.18”
Width	184.0mm	7.24”
Height (front to rear)	11mm(Front) 24.0mm (Slim panel), rear 25.7mm (Wedge panel) rear	0.43” (Front) 0.95” (Slim panel), rear 1.01” (Wedge panel) rear
Weight (equipped with optical drive, flash drive, and battery)	1086.92g (3 cell) 1199.57g (6 cell)	2.39 lb (3 cell) 2.65 lb (6 cell)
Input power		
Operating voltage	18.55V ~ 19.95V	
Operating current	40W 2.15A (Max)	
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	N/A	N/A
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity		
Operating	10% to 80%	
Nonoperating	5% to 80%	
Maximum altitude (unpressurized)		
Operating	-15m~3,084m	-50ft~10,000ft
Nonoperating	-15m~12,192m	-50ft~40,000ft
Shock		
Operating	105 g, 2ms, half-sine	
Nonoperating	200 g, 2ms, half-sine	
Random vibration		
Operating	0.6 g zero-to-peak, 5 Hz to 500 Hz, 0.25 oct/min sweep rate	
Nonoperating	1.50 g zero-to-peak, 10 Hz to 500 Hz, 0.25 oct/min sweep rate.	

NOTE:
Applicable product safety standards specify thermal limits for plastic surfaces. The computer operates well within this range of temperatures.

System Board Major Chips

Item	Specification
Core logic	AMD Brazos FT1 9W Hudson M1 FCH
VGA	UMA
LAN	10/100Mbps, Atheros AR8152-BL1A-RL
USB 2.0	Hudson M1 FCH
Super I/O controller	N/A
Bluetooth	USB type, ver 3.0, BRM 2070, ATH BU12
Wireless	3rd Party WiFi 1x1/2x2 802.11BGN / BG, Atheros HB95, Atheros HB95BG, Broadcom 4313, Reltek RTL8191SE
PCMCIA	N/A
Audio codec	Conexant 20584
Card reader	ENE UB6252NF A2-110 QFN 32P
3G	EM770W-Rev2

Processor

Item	Specification
CPU type	AMD Brazos FT1 9W Ontario (C50) 1.0G, 2Core
CPU package	BGA 413P
Core Logic	L2 Cache Size: 1MB
Chipset	Hudson M1 FCH

Processor Specifications

Item	CPU Speed (GHz)	Cores/ Threads	Bus Speed (FSB/ DMI/QBI)	Mfg Tech (nm)	Cache Size	Package	Voltage
Ontario (C50)	1	2	2.5 GT/s	40	1MB	BGA 413P	0.8750C~ 1.3500

CPU Fan True Value Table (For Windows mode)

CPU Temperature	Fan Speed (RPM)	SPL Spec (dBA)
50	4600	26
65	5300	29
75	5800	31
80	6300	34
• Throttling 50%: On= 95°C; OFF=85°C • OS shut down at 100°C; H/W shut down at 92°C		

CPU Fan True Value Table (For DOS mode)

CPU Temperature	Fan Speed (RPM)	SPL Spec (dBA)
35	4600	26
40	5300	29
45	5800	31
50	6300	34
• Throttling 50%: On= 95°C; OFF=85°C • OS shut down at 100°C; H/W shut down at 92°C		

System Memory

Item	Specification
Memory controller	Built in at CPU
Memory size	DDRIII 1333 1G/2G
DIMM socket number	1
Supports memory size per socket	1G/2G
Supports maximum memory size	2G/per DIMM
Supports DIMM type	DDRIII
Supports DIMM Speed	1333
Support DIMM voltage	1.5V
Supports DIMM package	DDRIII, SO-DIMM, 204 pins

Memory Combinations

Slot 1 (MB)	Total Memory (MB)
1024	1024
2048	2048

Video Interface

Item	Specification
Chipset	ATI Mobility Radeon HD 6250
Package	FT1 BGA, 413-Ball, 19x19mm
Interface	LVDS
Compatibility	TBD
Sampling rate	280 Mhz

BIOS

Item	Specification
BIOS vendor	Insyde
BIOS Version	1.00
BIOS ROM type	MX25L1606E, W25Q16BV
BIOS ROM size	2 MB
Features	• Insyde code base • Flash ROM 2 MB • Support Acer UI • Support multi-boot • Suspend to RAM (S3)/Disk (S4) • Various hot-keys for system control • Support SMBIOS 2.3 ,PCI2.2. • DMI utility for BIOS serial number configurable/asset tag • Support PXE • Support WinFlash • Wake on LAN from S3 • Wake on LAN from S5 in AC mode • System information • HDD password • Refer to Acer BIOS specification.

LAN Interface

Item	Specification
LAN Chipset	Atheros AR8152-BL1A-RL
LAN connector type	RJ45
LAN connector location	JRJ45 on right side
Features	**MAC Features** ● EEE 802.3x compliant flow control support ● Interrupt coalescing ● Internal transmit and receive FIFO buffers ● Descriptor ring management for Tx/Rx ● IPv4 and IPv6 support ● 802.3u support ● IEEE 802.1Q VLAN feature ● Supports remote wake-up (including AMD Magic packet and MS Wake-up frame) in both ACPI and APM **Device and Technology Features** ● Embedded switching regulator ● Embedded LDO regulator with PNP transistor embedded ● Requires only a single input power supply:3.3V. On-chip egulators provide all the other required voltages ● Supports 25MHz external shared-clock source ● Loop back modes for diagnostics ● 256 byte memory (using eFuse) embedded on chip ● Small footprint 40-pin QFN (5x5 mm) package with dramatically improved thermal and electrical characteristics over LQFP packaging ● Fully Programmable LED functions **PHY Features** ● Integrated PHY for 10/100 Mbps ● IEEE 802.3 Auto-Negotiation support ● IEEE 802.3 PHY compliance and compatibility ● Supports automatic MDI/MDIX functions ● Cable Diagnostic Test (CDT) for open, short cable, cable length detection, and incorrect or mismatched impedance ● Cable length to 180 meters ● IEEE 802.3az support

Item	Specification
LAN Interface (continued)	
	Host Offloading Features • IP, TCP, and UDP checksum offload capabilities • Transmit TCP segmentation • IPv6 offload • Advanced packet filtering, including promiscuous (unicast and multicast) transfer mode and multicast frame support • IEEE 802.1Q VLAN support Power Management Features • Supports PM states: L0, L1, L0s • Support wake event generation from all PM states including D3hot • Wake event signaling by WAKE# signal mechanisms • Compliance with PCI Express power management and ACPI • Wake on LAN support • Built-in intelligence allow sleep and ultra-low power options that do not require BIOS integration to perform the full wake-to-sleep-to-wake cycle • Intelligently reduces power based upon cable length detected • Green Ethernet feature support • Supports Energy Star 5.0 **PCIE Features** • PCI Express base 1.1 compliant • Supports single, one-lane PCIE connection • Memory and configuration transaction • Interrupt messaging • PCIE baseline and advanced error reporting • Supports max payload size (128 bytes) and read request size (4096 bytes) • Supports SMBus initialization • Supports PME and error messaging • CLKREQn support • Supports up to 25% over-clocking without requiring BIOS support - See Note below

Keyboard

Item	Specification
Type	New Acer flat keyboard
Total number of keypads	84-US/85-UK /88-JA keys
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes

Item	Specification
Keyboard (continued)	
Features	• Phantom key auto detect • Overlay numeric keypad • Support independent pgdn/pgup/pgup/home/end keys • Support reverse T cursor keys • Factory configurable different languages by OEM customer

Hard Disk Drive (AVL components)

Item	Specification			
Vendor & Model Name	HTS545016B9A300 MK1665GSX ST9160314AS	HTS545025B9A300 MK2565GSX ST9250315AS WD2500BPVT-22ZEST0	HTS545032B9A300 WD3200BPVT-22ZEST0 HTS543232A7A384	WD1600BPVT-22ZEST0
Capacity (GB)	160GB	250GB	320GB	160GB
Bytes per sector	512 512 512	512 512 512 4096	512 4096 512	4096
Data heads	2 1 2	2 2 2 1	3 2 2	1
Drive Format				
Disks	1 1 1	2 2 2 1	2 1 1	1
Spindle speed (RPM)	5400			
Performance Specifications				
Buffer size	8 MB			
Interface	SATA			
Fast data transfer rate (Mbits / sec, max)	3.0Gbits/s			

Item	Specification			
Hard Disk Drive (continued)				
Media data transfer rate (Mbytes/sec max)	845Mbits/s 1273.3Mbits/s 1175Mbits/s	845Mbits/s 1031.7Mbit/s 1175Mbits/s 108Mbytes/s	845Mbytes/s 108Mbytes/s 994Mbits/s	108Mbytes/s
DC Power Requirements				
Voltage tolerance	5V			

Super-Multi Drive (not available with this model)

Item	Specification	
Vendor & Model name		
Performance Specification		
Transfer rate (KB/sec)		
Buffer Memory		
Interface		
Applicable disc format		
Loading mechanism		
Power Requirement		
Input Voltage		

BD Drive (not available with this model)

Items	Specifications		
Vendor & Model name			
Performance Specification			
Transfer rate (KB/sec)			
Buffer Memory			
Interface			
Applicable disc format			
Loading mechanism			
Power Requirement			
Input Voltage			

LED 10.1"

Item	Specification
Vendor/Model name	AUO/B101AW06 V1 (HW:0A) AUO/B101AW03 V0 (HW:2A) AUO/B101EW02 V0 Samsung/LTN101AT01-A01 CMO/N101L6-L0D CMO/N101L6-L0B
Screen Diagonal (mm)	255.573 mm (10.06")
Active Area (mm)	222.72mm X125.28mm (8.77" x 4.93")
Display resolution (pixels)	1024x 600x 3(RGB)
Pixel Pitch (mm)	0.2175 x 0.2088 (0.009" x 0.008")
Typical White Luminance (cd/m^2) also called Brightness	200 cd/m2
Contrast Ratio	300min/400 typ
Response Time (Optical Rise Time/Fall Time) msec	16 ms / 25 ms (typ/max)
Typical Power Consumption (watt)	2.46 W
Weight (without inverter)	170 max
Physical Size (mm)	245.5 mm x 147mm x 3.6 max (9.67" x 5.79" x 0.14")
Electrical Interface	1 channel LVDS
Viewing Angle (degree) Horizontal (Right) CR = 10 (Left) Vertical (Upper) CR = 10 (Lower)	40 (Right) / 40 (Left) / 10 (Upper) / 30 (Lower) min.

LCD Inverter (not available with this model)

Item	Specification
Vendor & Model name	
Brightness conditions	
Input voltage (v)	
Input current (mA)	
Output voltage (V, RMS)	
Output current (mA, RMS)	
Output voltage frequency (KHz)	

Display Supported Resolution (LCD Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA	ATI
800x600p/60Hz 16:9	V	V	X	X	V
1024x768p/60Hz 16:9	V	V	X	X	V
1280x600/60Hz 16:9	X	X	X	X	X
1280x720/60Hz 16:9	V	V	X	X	V
1280x768/60Hz 16:9	X	X	X	X	X
1360x768/60Hz 16:9	X	X	X	X	X
1366x768/60Hz 16:9	X	X	X	X	X

Graphics Controller

Item	Specification
VGA Chip	UMA
Supports	No

Display Supported Resolution (GPU Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA	ATI
800x600p/60Hz 16:9	X	X	X	X	X
1024x768p/60Hz 16:9	X	X	X	X	X
1280x600/60Hz 16:9	X	X	X	X	X
1280x720/60Hz 16:9	X	X	X	X	X
1280x768/60Hz 16:9	X	X	X	X	X
1360x768/60Hz 16:9	X	X	X	X	X
1366x768/60Hz 16:9	X	X	X	X	X

Bluetooth Interface

Item	Specifications	
Chipset	Atheros BU12	Broadcomm 2070
Data throughput	TX 1.2Mbits/sec RX 1.2Mbits/sec	TX 1.2Mbits/sec RX 1.2Mbits/sec
Protocol	3.0+HS	3.0+HS
Interface	USB 2.0	USB 2.0
Connector type	SM06B-XSRK-ETB	SM06B-XSRK-ETB
Supported protocol	802.15.1	802.15.1

Bluetooth Module

Item	Specifications
Controller	BRM 2070 (T77H114.01)
Features	• BT 3.0

Camera

Item	Specification
Vendor and Model	• Chicony 1.3M CH9665SN (CNF9157) • Suyin 1.3M SY9665SN • Liteon 1.3M LT9665AL (09P2SF119)
Type	1.3M

Mini Card

Item	Specification
Number supported	2
Features	• 1 mini card slot (for WLAN) • 1 mini card slot(for 3G)

3G Card

Item	Specification
Features	• Huawei EM770W Rev02

Audio Codec and Amplifier (amplifier not available)

Item	Specification
Audio Controller	Conexant 20584
Features	• 24-bit, 2 pairs of independent DACs and 3 pairs of independent ADCs • ProCoustic headphone driver delivers 50 mW into 32 ? load with no pop, eliminating the need for an external amplifier and DC-blocking capacitors • Integrated 5 V to 3.3 V low-dropout voltage regulator for improved audio performance, eliminating need for external regulator or power transistor. • Integrated 3.3 V to 1.8 V low-dropout voltage regulator, used to power digital blocks • Integrated 2 WRMS (per channel) class-D stereo speaker amplifier with Spread Spectrum and 10-kV ESD withstand capability

Item	Specification
Audio Codec and Amplifier (continued)	
Features	● Digital Microphone interface with internal MIC boost supporting 2 digital microphone elements ■ Works with all digital microphones. ● Internal microphone boost ■ Digital: 0, 12, 24, 36, 48 dB ■ Analog: 0, 10, 20, 30, 40 dB ● Microphone Security Control ■ Please contact Conexant Sales/FAE for additional confidential document to disable the bit in microphone from the BIOS. ● Exceeds Windows Vista and Windows 7 Desktop and Notebook Premium Logo Requirements, WLP4.0 ● D-Flex power management exceeds Intel ECR 15B requirements, and features Wake-On-PCBeep functionality ● Hardware Headphone limiter bit (supports GS Mark EN50332-2) ● Compliant with Intel High Definition Audio Specification Rev. 1.0 ● Supports both 1.5 V and 3.3 V signaling with the core logic chipset ● Retaskable ports ■ Configure between Headphone and Line-out or between Mic and Line-in ● Independent sampling rate for DAC and ADC; supports audio formats ranging from 16-bit, 44.1 kHz to 24-bit, 192 kHz for DACs, and from 16-bit, 44.1 kHz to 24-bit, 96 kHz for ADCs. ● Pop Shield: pops and clicks reduction circuitry, including class-D speaker outputs ● Jack sense detects up to 8 jacks using only two sense pins ● Dual Sony Philips Digital Interface (S/PDIF) outputs ● Digital Mixer ● Simultaneous DAC and SPDIF engines ● +3.3 V analog and I/O operation; uses Vaux for power management modes

Item	Specification
Audio Codec and Amplifier (continued)	
Features (continued)	• Audio Director for Headphone and Internal Speakers Redirection (optional). ■ Supporting Classic Mode ■ Vista Multi-Stream ■ Custom Multi-Stream Mode • Voice Processing Algorithms (optional) ■ End-to-end Noise Reduction (patent pending) ■ Multi-band Acoustic Echo Cancellation ■ Side Noise Rejection Beam Forming • SmartAudio GUI (optional) - advanced audio control • Digital Parametric SmartEQ with Dynamic Range Compression (DRC) ■ Enhances the sound quality on low cost speakers ■ Night Mode • 3D Expander • Third-party Logo software support ■ Andrea ■ Creative Labs ■ Dolby® ■ Fortemedia ■ MaxxAudio ■ Sonic FocusTM ■ SRS® • Supports 32-bit/64-bit Windows OS and Linux • Available in 48-/56-QFN and in 48-/64-QFP packages
Amplifier	N/A
Features	N/A

Audio Interface

Item	Specification
Audio Controller	Conexant 20584
Audio onboard or optional	On board
Mono or Stereo	Stereo
Resolution	Support 16/24bit PCM
Compatibility	HD audio Interface
Sampling rate	Sample rate up to 192Khz resolution VSR (Variable Sampling Rate)
Internal microphone	Yes
Internal speaker/quantity	Yes/(1W speakers x1)

Wireless Module 802.11b/g/n

Item	Specification	
Chipset	Broadcomm94313	Atheros AR9285(FOXCONN)
Data throughput	TX 150Mbps RX 150Mbps	TX :65Mbps for 20Mhz channel and 150Mbps for 40Mhz channel RX :65Mbps for 20Mhz channel and 150Mbps for 40Mhz channel
Protocol	802.11b 802.11g 802.11n	802.11b 802.11g 802.11n
Interface	PCI-E	PCI-E
Chipset	Atheros Ar9285(FOXCONN)	Atheros Ar9285(Liteon)
Data throughput	TX 150Mbps RX 150Mbps	TX 150Mbps RX 150Mbps
Protocol	802.11b 802.11g 802.11n	802.11b 802.11g 802.11n
Interface	PCI-E	PCI-E

Battery

Item	Specification	
Vendor & Model name	SANYO AL10A	SANYO AL10B
Battery Type	Li-ion	Li-ion
Pack capacity	2200mAh	4400mAh
Number of battery cell	3	6
Package configuration	3S1P	3S2P

VRAM (not available with this model)

Item	Specification
Chipset	N/A
Memory size	N/A
Interface	N/A

USB Port

Item	Specification
USB compliance level	USB 2.0
Protocol	OHCI
Number of USB port(s)	3
Location	Two at the left side and one at right side
Output Current	1.0A for each connector

HDMI Port

Item	Specification
Compliance level	v1.4
Data throughput	3.4 Gbit/s
Number of HDMI port(s)	1
Location	JHDMI on left side

AC Adapter

Item	Specification
Input rating	40W
Maximum input AC current	1.2A Max at 100Vac input voltage
Inrush current	No damage at 240Vac
Efficiency	Refer to EPA 2.0

System Power Management

Item	Specification
Mech. Off (G3)	Al devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disc may be power managed in this state.
Suspend to RAM (S3)	• CPU set power down • VGA Suspend • PCMCIA Suspend • Audio Power Down • Hard Disk Power Down • CD-ROM Power Down • Super I/O Low Power mode
Save to Disk (S4)	Also called Hibernation Mode. System saves all system states anddata onto the disc prior to power off the whole system.

Card Reader

Item	Specification
Chipset	ENE UB6252
Package	32 Pin QFN
Maximum supported size	SD card: SD Memory Card Specification Version 2.0 xD card: Compliant with xD-Picture Card Specification Version 1.2 MMC card: MultiMedia Card Specification Version 4.2 MS Pro: Memory Stick PRO Format Specification Version 1.x
Features	• 32 Pin QFN • Built-in 250mA Power MOS for memory card • Over Current Protection and Over Temperature Protection • Built-in LDO • Power Saving • Power Down when no memory card is inserted • Power Idle (Selective Suspend) • USB Interface Compliant with Universal Serial Bus Specification Revision 2.0 Compliant with Universal Serial Bus Mass Storage Class Bulk-Only • Transport Specification Revision 1.0 • Support both High-Speed (480 Mbps) and Full-Speed (12 Mbps) Data Transfer • Embedded High Speed/Full Speed Transceiver • Clock source: 12MHz crystal • Secure Digital/MultiMedia Card Interface • Compliant with SD Memory Card Specification Version 2.0 • Compliant with MultiMedia Card Specification Version 4.2 • Support High Speed SD 4-bit Data Transfer Mode • Support High Speed MMC 8-bit Data Transfer Mode • Support Write Protection Switch • Memory Stick Interface • Compliant with Memory Stick PRO Format Specification Version 1.x • Compliant with Memory Stick PRO-HG Duo Format Specification Version 1.x • Support 4-bit and 8-bit Parallel Data Transfer Mode • xD- Picture Card Interface • Compliant with xD-Picture Card Specification Version 1.2 (support multi-plane) • Support Hardware ECC (1-bit correction and 2-bits detection) Generation

Item	Specification
Card Reader (continued)	
	● Embedded Program memory and Data SRAM ● Miscellaneous Function ● One Global Traffic LED Pin ● ENE Driver ● Windows 2000, Windows XP, Windows Vista, Windows 7 ● Linux

System LED Indicator

Item	Specification
Lock	N/A
System state	Dual color: Blue/Orange Power on: Blue Standby: Breeze mode Orange (1 sec on/ 3 sec off) Entering Hibernation: Blinking mode Orange (1 sec on/ 1 sec off) Hibernation/Power off: N/A
HDD access state	Blue color Fast blinking when HDD/SSD/Card reader is running or accessing to data
Wireless state	Dual color (Blue/Orange) 3G only: Blue (either BT is on or off) 3G+WiFi: Blue (either BT is on or off) WiFi only: Orange (either BT is on or off) Both off: N/A (either BT is on or off) (WiMax is the same as WiFi behavior) BT has no LED. So above behavior is unchanged no matter BT is on or off
Power button backlight	Blue color Power on: Blue Power off: N/A
Battery state	Dual color: Blue/Orange Fully charged: Blue Under charging: Orange Battery low: Breeze mode Orange (1 sec on, 3 sec off) Battery critical low (less than 3%) or abnormal battery situation: Blinking mode Orange: (1 sec on, 1 sec off) Using battery or not connected to AC power: N/A

System DMA Specification

Legacy Mode	Power Management
DMA0	N/A
DMA1	N/A
DMA2	N/A
DMA3	N/A
DMA4	Direct memory access controller
DMA5	N/A
DMA6	N/A
DMA7	N/A
*ExpressCard controller can use DMA 1, 2, or 5.	

System Interrupt Specification

Hardware IRQ	System Function
IRQ0	High precision event timer
IRQ1	Standard PS/2 Keyboard
IRQ8	High precision event timer
IRQ12	XXXX PS2 Port TouchPad
IRQ13	Numeric data processor
IRQ81-IRQ190	Microsoft ACPI-compliant system
IRQ16	High Definition Audio Controller PCI standard PCI-to-PCI bridge
IRQ17	Standard Enhanced PCI to USB Host Controller
IRQ18	Atheros AR8152/8158 PCI-E Fast Ethernet Controller (NDIS 6.20) Standard OpenHCD USB Host Controller
IRQ19	XXXX Wireless Network Adapter High Definition Audio Controller Standard AHCI 1.0 Serial ATA Controller
IRQ(-2)	AMD Radeon HD 6250 Graphics

System IO Address Map

I/O address (hex)	System function (shipping configuration)
000 - 00F	DMA controller
000 - CF7	PCI bus
010 - 01F	Motherboard resources
020 - 021	Interrupt controller
02E - 02F	Motherboard resources
040 - 043	System timer
060 - 060	Standard PS/2 Keyboard
061 - 061	System speaker
062 - 062	Microsoft ACPI-Compliant Embedded Controller
064 - 064	Standard PS/2 Keyboard
066 - 066	Microsoft ACPI-Compliant Embedded Controller
070 - 071	System CMOS/real time clock
072 - 073	Motherboard resources
080 - 080	Motherboard resources
081 - 08F	DMA controller
092 - 092	Motherboard resources
0A0 - 0A1	Programmable interrupt controller
0B0 - 0B1	Motherboard resources
0C0 - 0DF	DMA controller
0F0 - 0FE	Numeric data processor
3B0 - 3BB	AMD Radeon HD 6250 Graphics
3C0 - 3DF	AMD Radeon HD 6250 Graphics
400 - 4CF	Motherboard resources
4D0 - 4D1	Motherboard resources
4D6 - 4D6	Motherboard resources
680 - 6FF	Motherboard resources
77A - 77A	Motherboard resources
C00 - C01	Motherboard resources
C14 - C14	Motherboard resources
C50 - C52	Motherboard resources
C6C - C6C	Motherboard resources
C6F - C6F	Motherboard resources

I/O address (hex)	System function (shipping configuration)
System IO Address Map (continued)	
CD0 - CDB	Motherboard resources

System I/O Address Specifications

I/O address (hex)	System function (shipping configuration)
0D00 - FFFF	PCI bus
2000 - 207F	Atheros AR8152/8158 PCI-E Fast Ethernet Controller(NDIS 6.20)
2000 - 2FFF	PCI standard PCI-to-PCI bridge
3000 - 3FFF	PCI standard PCI-to-PCI bridge
4000 - 40FF	AMD Radeon HD 6250 Graphics
4100 - 410F	Standard AHCI 1.0 Serial ATA Controller
4100 - 410F	Standard AHCI 1.0 Serial ATA Controller
4100 - 410F	Standard AHCI 1.0 Serial ATA Controller
4100 - 410F	Standard AHCI 1.0 Serial ATA Controller
4100 - 410F	Standard AHCI 1.0 Serial ATA Controller

CHAPTER 2

System Utilities

System Utilities

BIOS Setup Utility

This utility is a hardware configuration program built into a computer's BIOS (Basic Input/Output System).

The utility is pre-configured and optimized so most users do not need to run it. If configuration problems occur, the setup utility may need to be run. Refer to *Chapter 4, Troubleshooting* when a problem arises.

To activate the utility, press ***F2*** during POST (power-on self-test) when prompted at the bottom of screen.

The default parameter of `F12 Boot Menu` is set to `Disabled`. To change the boot device without entering *BIOS Setup Utility*, set the parameter to `Enabled`.

To change the boot device without entering the BIOS SETUP, press ***F12*** during POST to enter the multi-boot menu.

Navigating the BIOS Utility

Six menu options are:

- Information
- Main
- Security
- Boot
- Exit

To navigate through the following:

- Menu - use the left and right arrow keys
- Item - use the up and down arrow keys
- Change parameter value - press ***F5*** or ***F6***.
- Exit - Press ***Esc***
- Load default settings - press ***F9***. Press ***F10*** to save changes and exit BIOS Setup Utility

NOTE:

Parameter values can be changed if enclosed in square brackets [ ]. Navigation keys appear at the bottom of the screen. Read parameter help carefully when making changes to parameter values. Parameter help is found in the Item Specific Help area of the screen.

NOTE:

System information is subject to specific models.

BIOS

The following is a description of the tabs found on the InsydeH20 *BIOS Setup Utility* screen:

NOTE:

The screens provided are for reference only. Actual values may differ by model.

Information

This tab shows a summary of computer hardware information.

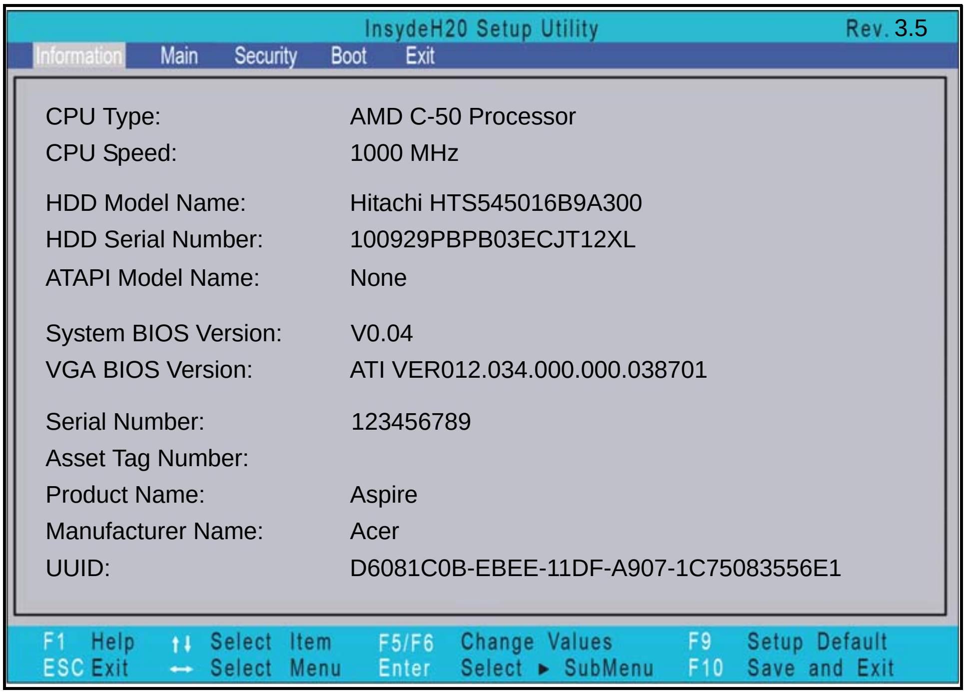


Figure 2-1. BIOS Information

Table 2-1 describes the parameters shown in Figure 2-1.

Table 2-1. BIOS Information

Parameter	Description
CPU Type	CPU (central processing unit) type and speed of system
CPU Speed	Speed of the CPU
HDD Model Name	Model name of HDD (hard disk drive) installed on primary IDE master
HDD Serial Number	Serial number of HDD installed on primary IDE master
ATAPI Model Name	Model name of Optical device installed in system
System BIOS Version	System BIOS version

Table 2-1. BIOS Information (Continued)

Parameter	Description
VGA BIOS Version	VGA (video graphics array) firmware version of system
Serial Number	Serial number of unit
Asset Tag Number	Asset tag number of system
Product Name	Product name of the system
Manufacturer Name	Manufacturer of system
UUID	Universally Unique Identifier

Main

This tab allows the user to set system time and date, enable or disable boot option and enable or disable recovery.

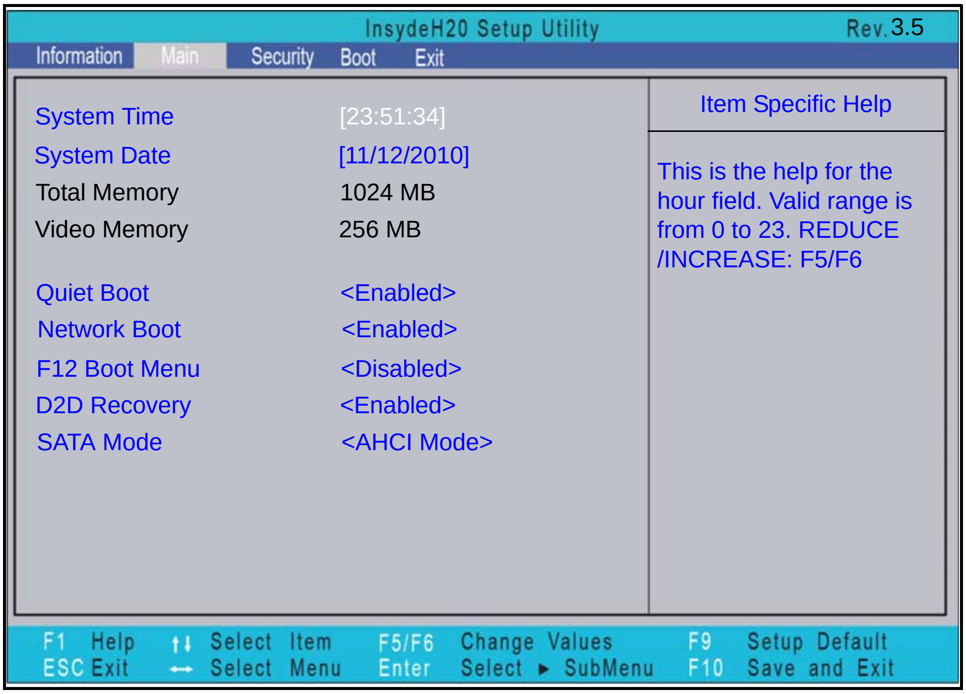


Figure 2-2. BIOS Main

Table 2-2 describes the parameters shown in Figure 2-2.

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Table 2-2. BIOS Main

Parameter	Description	Format/Option
System Time	BIOS system time in 24-hour format	Format: HH:MM:SS (hour:minute:second)
System Date	BIOS system date	Format MM/DD/YYYY (month/day/year)
Total Memory	Total memory available	N/A
Video Memory	Available memory for video	N/A
Quiet Boot	Shows OEM (original equipment manufacturer) screen during system boot instead of traditional POST screen	Option: Enabled or Disabled
Network Boot	Option to boot system from LAN (local area network)	Option: Enabled or Disabled

Table 2-2. **BIOS Main (Continued)**

Parameter	Description	Format/Option
F12 Boot Menu	Option to use boot menu during POST	Option: Enabled or Disabled
D2D Recovery	Option to use D2D Recovery function	Option: Enabled or Disabled
SATA Mode	Option to set SATA controller mode	Option: AHCI or IDE

Security

This tab shows parameters that safeguard and protect the computer from unauthorized use.

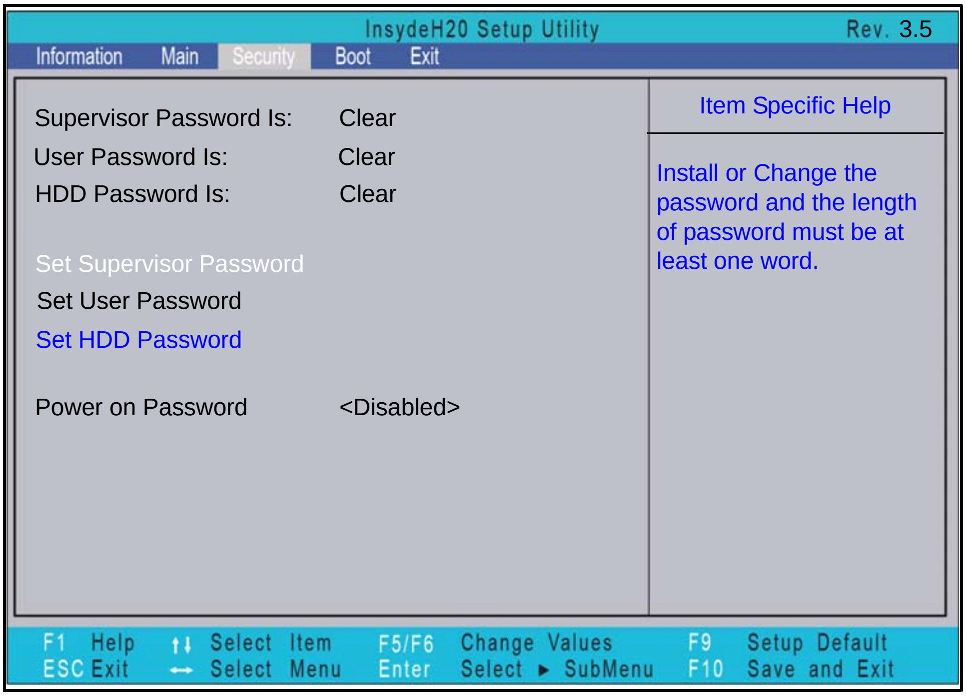


Figure 2-3. BIOS Security

Table 2-3 describes the parameters shown in Figure 2-3.

Table 2-3. BIOS Security

Parameter	Description	Option
Supervisor Password Is	Supervisor password setting	Clear or Set
User Password Is	User password setting	Clear or Set
HDD0 Password Is	HDD0 password setting	Clear or Set
SATA Port0 Disk Status	SATA Port0 Disk Status setting	Clear or Set
Set Supervisor Password	Option to set supervisor password	N/A
Set User Password	Option to set user password	N/A
Set HDD0 Password	Option to set HDD0 password	N/A

Table 2-3. BIOS Security (Continued)

Parameter	Description	Option
Password on Boot	⚠ **CAUTION:** *If Power-on Password authentication is enabled, the BIOS password can only be cleared by initiating the Crisis Disk Recovery procedure. Refer to BIOS Recovery by Crisis Disk.* Shows if password is required during system boot	Disabled or Enabled

NOTE:

When prompted to enter password, three attempts are allowed before system halts. Resetting BIOS password may require computer be returned to dealer.

`Password on Boot` must be set to `Enabled` to activate password feature.

Passwords are not case sensitive.

A password must be alphanumeric (A-Z, a-z, 0-9), not longer than 12 characters.

Setting a Password

Perform the following to set a new supervisor password:

1. Use the ↑ and ↓ keys to highlight the `Set Supervisor Password` parameter and press ***Enter***. The `Set Supervisor Password` dialog is shown. (Figure 2-4)

NOTE:

To change an existing password, refer to *Changing a Password*.



Figure 2-4. Setting a Password: Set Supervisor Password

2. Type a new password in the `Enter NewPassword` field and press ***Enter***.

+ IMPORTANT:

Use care when typing a password. Characters do not appear on the screen.

3. Retype password in the `Confirm NewPassword` field and press ***Enter***.
4. If new password and confirm new password strings match, the `Setup Notice` dialog screen is shown (Figure 2-5). If it is not, go to step 6.



Figure 2-5. Setting a Password Confirmation Notice

a. Press ***Enter*** to return to the *BIOS Setup Utility Security* menu.

b. `The Supervisor Password` parameter is shown as `Set.`

c. Press ***F10*** to save changes and exit *BIOS Setup Utility*.

5. If new password and confirm new password strings do not match, the `Setup Warning` dialog is shown. (Figure 2-6)



Figure 2-6. Setting a Password: Passwords Do Not Match

a. Press ***Enter*** to return to the *BIOS Setup Utility Security* menu.

b. `The Supervisor Password` parameter is shown as `Clear.`

c. To try to set a new password again, repeat steps 1 through 3.

Removing a Password

Perform the following:

1. Use the ↑ and ↓ keys to highlight `Set Supervisor Password` and press ***Enter***. The `Set Supervisor Password` dialog box is shown. (Figure 2-7)

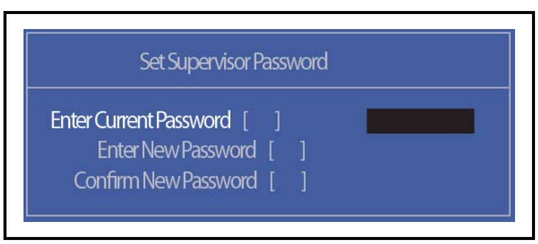


Figure 2-7. Removing a Password: Set Supervisor Password

2. Type current password in `Enter CurrentPassword` field and press ***Enter***.
3. Press ***Enter*** twice without typing anything in `Enter NewPassword` and `Confirm NewPassword` fields. Computer will set `Supervisor Password` parameter to `Clear`.
4. Press ***F10*** to save changes and exit the *BIOS Setup Utility*.

Changing a Password

1. Use the ↑ and ↓ keys to highlight `Set Supervisor Password` and press ***Enter***. The `Set Supervisor Password` dialog is shown. (Figure 2-8)



Figure 2-8. Changing a Password: Set Supervisor Password

2. Type current password in `Enter CurrentPassword` field and press ***Enter***.
3. Type new password in `Enter NewPassword` field and press ***Enter***.
4. Retype new password in `Confirm NewPassword` field and press ***Enter***.
5. If new password and confirm new password strings match, The `Setup Notice` dialog is shown (Figure 2-9). If it is not shown, go to step 6.



Figure 2-9. Changing a Password: Setup Notice

   a. Press ***Enter*** to return to the *BIOS Setup Utility Security* menu.
   b. `The Supervisor Password` parameter is shown as `Set.`
   c. Press ***F10*** to save changes and exit *BIOS Setup Utility*.
6. If current password and new password strings do not match, the `Setup Warning` dialog is shown (Figure 2-10). If it is not shown, go to step 7.



Figure 2-10. Changing a Password: Invalid Password

a. Press ***Enter*** to return to the *BIOS Setup Utility Security* menu.

b. `The Supervisor Password` parameter is shown as `Clear.`

c. To try to change the password again, repeat steps 1 through 4*.*

7. If new password and confirm new password strings do not match, the `Setup Warning` dialog is shown (Figure 2-11).



Figure 2-11. Changing a Password: Passwords Do Not Match

a. Press ***Enter*** to return to the *BIOS Setup Utility Security* menu.

b. `The Supervisor Password` parameter is shown as `Clear.`

c. To try to change the password again, repeat steps 1 through 4*.*

Boot

This tab allows changes to the order of boot devices used to load the operating system. Bootable devices include the:

- USB diskette drives
- Onboard hard disk drive
- DVD drive in the module bay

Use ↑ and ↓ keys to select a device and press ***F5*** or ***F6*** to change the value.

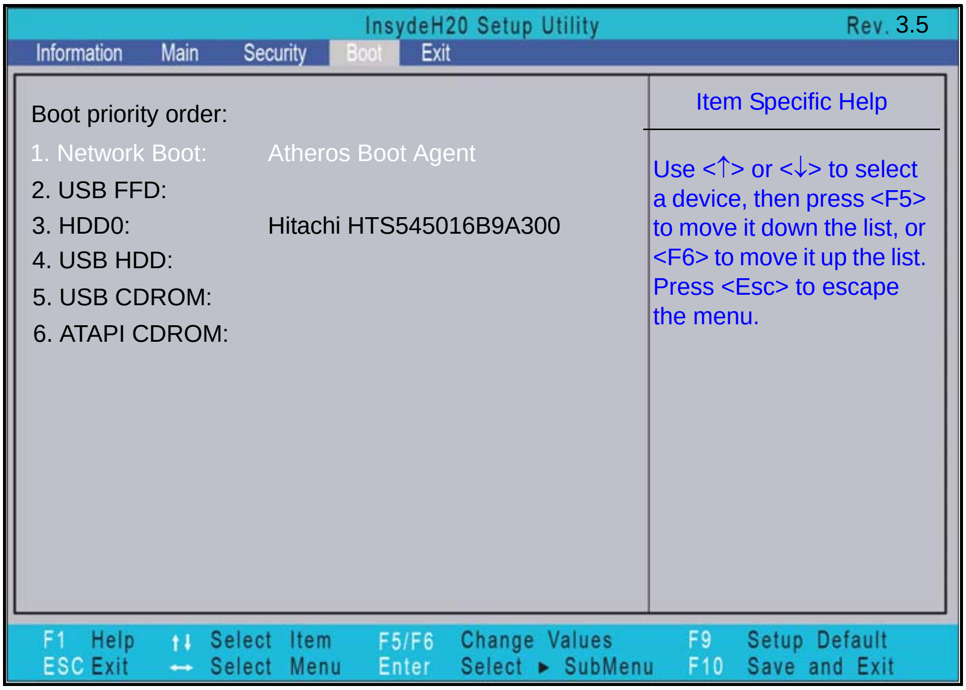


Figure 2-12. BIOS Boot

Exit

The Exit tab allows users to save or discard changes and quit the *BIOS Setup Utility*.

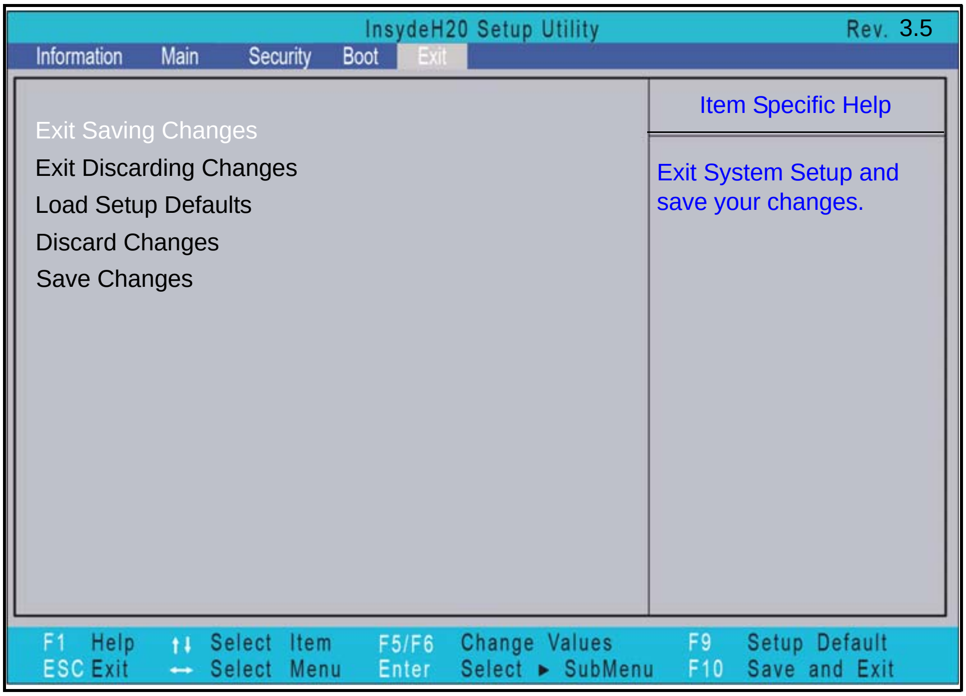


Figure 2-13. BIOS Exit

Table 2-4 describes the parameters in Figure 2-13.

Table 2-4. Exit Parameters

Parameter	Description
Exit Saving Changes	Exit BIOS utility and save setup item changes to system.
Exit Discarding Changes	Exit BIOS utility without saving setup item changes to system.
Load Setup Default	Load default values for all setup items.
Discard Changes	Load previous values of all setup items.
Save Changes	Save setup item changes to system.

BIOS Flash Utilities

BIOS Flash memory updates are required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Flash utility to update the system BIOS Flash ROM.

NOTE:
If a Crisis Recovery Disc is not available, create one before BIOS Flash utility is used. See

NOTE:
Do not install memory related drivers (XMS, EMS, DPMI) when BIOS Flash is used.

NOTE:
Use AC adaptor power supply when running BIOS Flash utility. If battery pack does not contain power to finish loading BIOS Flash, do not boot system.

Perform the following to run BIOS Flash update:

1. Prepare a bootable USB HDD.
2. Copy Flash utilities to bootable USB HDD.
3. Boot system from bootable USB HDD.

NOTE:
BIOS Flash utility has auto execution function.

DOS Flash Utility

Perform the following to use the *DOS Flash Utility*:

1. Press ***F2*** during boot to enter `Setup Menu`.
2. Select `Boot Menu` to modify boot priority order.
3. Move USB HDD to position 1 (Figure 2-14). (Refer to Boot menu)

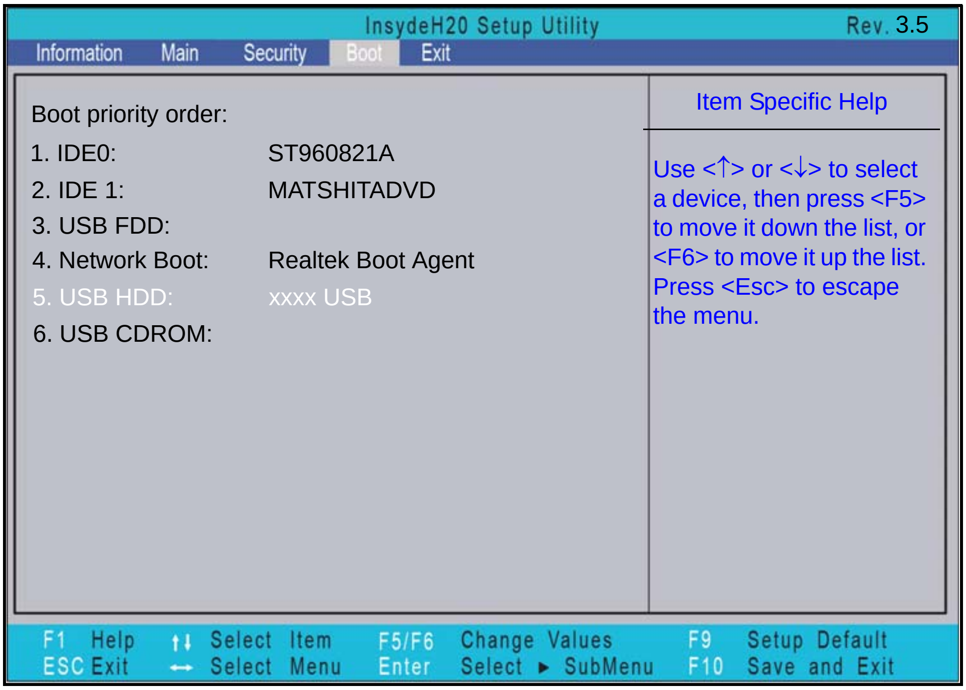


Figure 2-14. Changing BIOS Boot Priority Order

4. Copy **`BIOS.BAT`** to USB HDD.
5. Insert USB HDD and reboot computer.
6. Execute **`BIOS.BAT`** to update BIOS (Figure 2-15). BIOS flash process begins as shown in Figure 2-16.



Figure 2-15. Executing BIOS.BAT

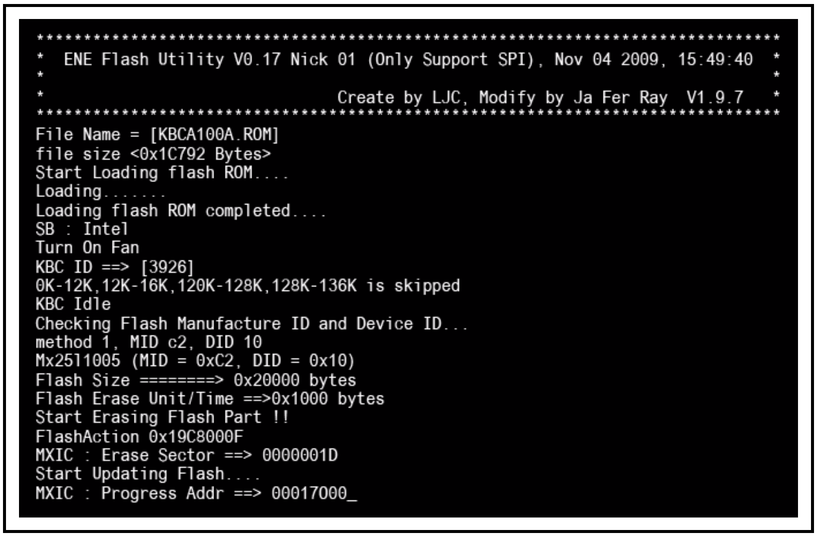


Figure 2-16. Erasing FLASH ROM

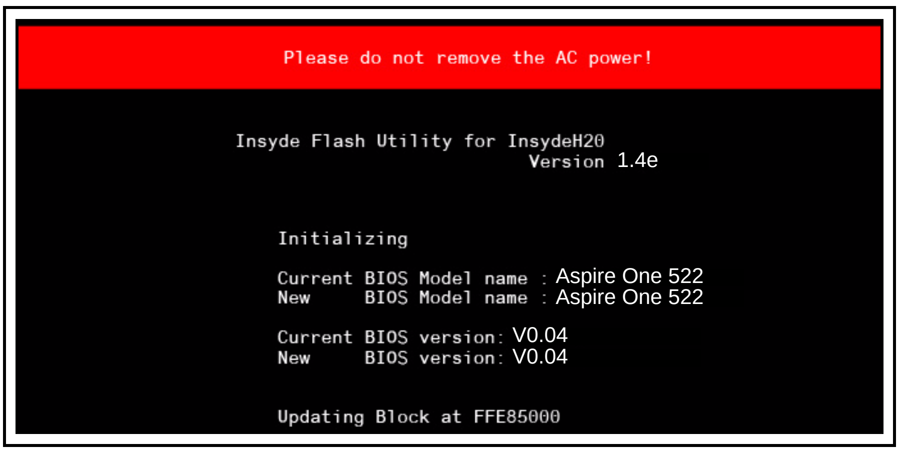


Figure 2-17. Updating Flash ROM Blocks

7. BIOS flash is complete when the message, `Flash Programming Complete` is shown. System will restart automatically when finished.

NOTE:

If AC power is not connected, the following message is shown (Figure 2-18). Plug in the AC power to continue.

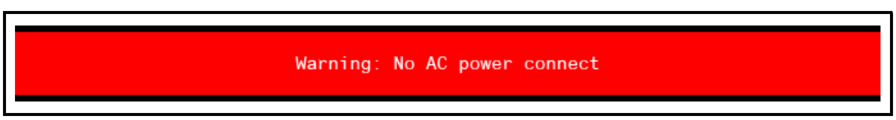


Figure 2-18. AC Power Warning

WinFlash Utility

Perform the following to use the WinFlash Utility:

1. Double click the WinFlash executable.
2. Click ***OK*** to begin the update. A progress screen is shown. (Figure 2-19)



Figure 2-19. InsydeFlash

HDD/BIOS Password Utilities

CAUTION:

If Power-on Password authentication is enabled, the BIOS password can only be cleared by initiating the Crisis Disk Recovery procedure. See *Chapter 5, BIOS Recovery by Crisis Disk*.

Removing HDD Passwords

This section provides details about removing an HDD password from the BIOS. If the HDD password is incorrectly entered three times, an error is generated. (Figure 2-20)



Figure 2-20. Password Error Status

To reset the HDD password, perform the following:

1. Press ***Enter*** to continue. The `Select Item` dialog is shown. (Figure 2-21)

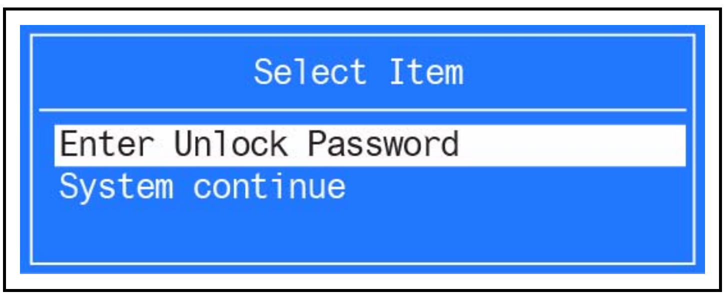


Figure 2-21. Select Item

2. Use the ↑ and ↓ keys to highlight `Enter Unlock Password` and press ***Enter***. The `Enter Unlock Password` dialog is shown. (Figure 2-22)



Figure 2-22. Enter Unlock Password

NOTE:

A key code is generated for use with unlocking utility. Make note of this code.

3. On a separate, compatible device, boot to DOS.
4. Execute *UnlockHD.exe* (Figure 2-23) to create a password unlock code. Use the format *<`UnlockHD [key code]`>* with the code noted in the Figure 2-22.

   Example: **UnlockHD 54591747**

The command generates a password which can be used for unlocking the HDD.

```
Password: 41499389
```

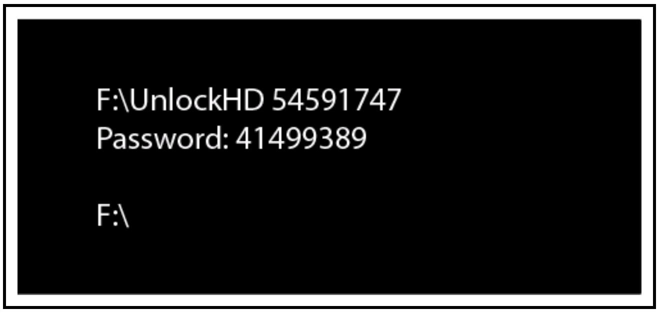


Figure 2-23. Unlock Password

5. On original device, enter password (Figure 2-23) in `Enter Unlock Password` dialog (Figure 2-22).

Clearing BIOS Passwords

If a BIOS password (Supervisor Password and/or User Password) is set, the BIOS will prompt for the password at system POST or upon entering the BIOS setup menu. Clear the password check with the following procedure:

1. Remove HDD, AC adapter and Battery.
2. Remove power from system.
3. Disconnect RTC Battery.
4. Locate the RTC_RST point (A). (Figure 2-24)

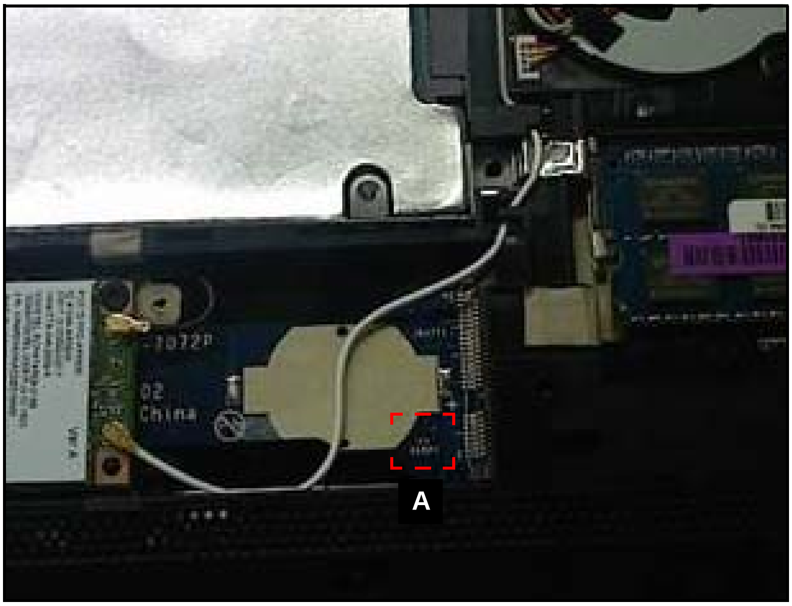


Figure 2-24. CMOS Jumper Overview

5. Use an electric conductivity tool to bridge the two points of the jumpers (A). (Figure 2-25)

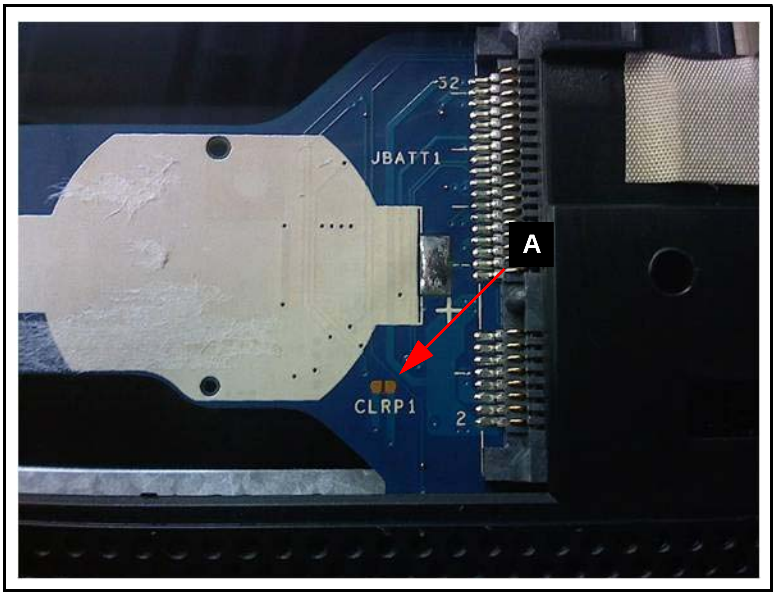


Figure 2-25. CMOS Jumper

Table 5-5. CMOS Jumper

Item	Description
CLRP1	Clear CMOS Jumper

6. Plug in AC adapter.

7. Press ***Power*** button until BIOS POST is finished

8. Remove conductivity tool from RCT_RST point.

9. Restart the system and press ***F2*** to enter *BIOS Utility Setup* menu.

10. If no password prompt is shown, BIOS password is cleared.

11. If password prompt is shown, repeat steps 1 through 9.

Cleaning BIOS Passwords

To clean the User or Supervisor passwords, perform the following steps:

1. At the DOS prompt, enter **clnpwd.exe.**
2. Press **1** or **2** to clean the desired password as shown in Figure 2-26.

```
D:\Clnpwd>clnpwd
Acer Clean Password Utility V1.00
Press 1 or 2 to clean any password shown as
below
         1. User Password

         2. Supervisor Password

Clean User Password Successful!
```

Figure 2-26. Clean BIOS Password

3. The on screen message shows function success or failure.

Miscellaneous Tools

Using Boot Sequence Selector

The *Boot Sequence Selector* allows the boot order to be changed without accessing the BIOS. To use the *Boot Sequence Selector*, perform the following steps:

1. Boot to DOS.
2. Enter **bs <#**>, **bs.exe** followed by a digit from 1 to 4, at the command prompt to select a boot sequence.

```
D:\BOOTSEQd>bs
*** Boot Sequence Selector Version 0.03 ***
Created by Rockwell Chuang 10/01/2005.1.
Usage:
BS [ 1 | 2 | 3 | 4 ]
BS 1: [Floppy] => [HardDisk] => [CD-ROM] => [LAN]
BS 2: [HardDisk] => [CD-ROM] => [LAN] => [Floppy]
BS 3: [CD-ROM] => [HardDisk] => [LAN] => [Floppy]
BS 4: [LAN] => [Floppy] => [HardDisk] => [CD-ROM]

D:\BOOTSEQ>
```

Figure 2-27. Boot Sequence Selector

NOTE:

Enter **bs <2**> at the command prompt to change the boot sequence to HDD | CD ROM | LAN | Floppy.

Using DMITools

The *DMI* (Desktop Management Interface) *Tool* copies BIOS information to EEPROM. Used in the DMI pool for hardware management.

When the BIOS shows `Verifying DMI pool data,` it is checking that the table correlates with the hardware before sending it to the operating system (Windows, etc.).

To update the DMI Pool, perform the following:

1. Boot to DOS.
2. At the prompt, enter **`dmitools`** with one of the following arguments:
   - /r ==> Read dmi information from memory
   - /wm ==> Write Manufacturer Name to EEPROM (max. 16 characters)
   - /wp ==> Write Product Name to EEPROM (max. 16 characters)

- /ws ==> Write Serial Number to EEPROM (max. 22 characters)
- /wu ==> Write UUID to EEPROM (ignore string)
- /wa ==> Write Asset Tag to EEPROM (max. 32 characters)

The following examples show the commands and the corresponding output information:

1. Read DMI Information from Memory

   Input:

   dmitools /r

   Output:

   Manufacturer (Type1, Offset04h): Acer

   Product Name (Type1, Offset05h): Aspire One 522

   Serial Number (Type1, Offset07h): 01234567890123456789

   UUID String (Type1, Offset08h): xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

2. Write Product Name to EEPROM

   Input:

   dmitools /wp Aspire One 522

3. Write Serial Number to EEPROM

   Input:

   dmitools /ws 01234567890123456789

4. Write UUID to EEPROM (Create UUID from *Aspire One 522 Series Service Guide*)

   Input:

   dmitools /wu

5. Write Asset Tag to EEPROM

   Input:

   dmitools /wa Acer Asstag

NOTE:

For examples two (2) through five (5), restart the system to write any changes in the data to the EEPROM.

Updating MAC Address and SSID/SVID Utility

1. Copy the contents of the *memcfg* folder to a bootable HDD device.
2. Use a text editor to edit *mac_id.ini* with the correct MAC address and SSID/SVID.

```
Current_MAC_address = 00-04-F0-11-11-1A
SubSystem_ID = 05-43-10-25
```

Figure 2-28. Editing MAC_ID.INI

3. Boot computer to HDD device.
4. Enter *memcfg* folder.
5. At the DOS prompt, enter **memcfg -p mac_id.ini** to write to eeprom.

```
C:\MEMCFG>memcfg -p mac_id.ini
EEPROM/OTP R/W Utility 1.0.0.37 (Sep 24 2010)
Searching for supported Ethernet adapter...
Bus number: 6, Device number: 0, Slot number: 0
PCI-Ids: Vendor=1969, Device=2062, SubVen=1025, SubSys=0543
determined MEMORY size is 246 Bytes
read out current contents... 100% o.k.
Success.
```

Figure 2-29. Updating MAC Address and SSID/SVID

6. Reboot computer when process has completed.

CHAPTER 3

Machine Maintenance Procedures

Machine Maintenance Procedures

Introduction

This chapter contains general information about the notebook, a list of tools needed to perform the required maintenance and step by step procedures on how to remove and install components from the notebook computer.

General Information

The product previews seen in the following procedures may not represent the final product color or configuration. Cable paths and positioning may also differ from the actual model. During the removal and installation of components, make sure all available cable channels and clips are used and that the cables are installed in the same position.

All prerequisites must be performed prior to performing maintenance.

Recommended Equipment

The following tools are required to perform maintenance on the notebook:

- Wrist grounding strap and conductive mat
- Flat screwdriver
- Philips screwdriver

Table 3-1. Main Screw List

Screw Name	Quantity
M2x3 t=0.04	15
M2x7	8
M3x3 Ni	8
M2x5	7
M2x4 Ni	4
M2x3	4
M2x2.5	4

Maintenance Flowchart

The flowchart in Figure 3-1 provides a graphic representation of the module removal and installation sequences. It provides information on what components need to be removed and installed during servicing.

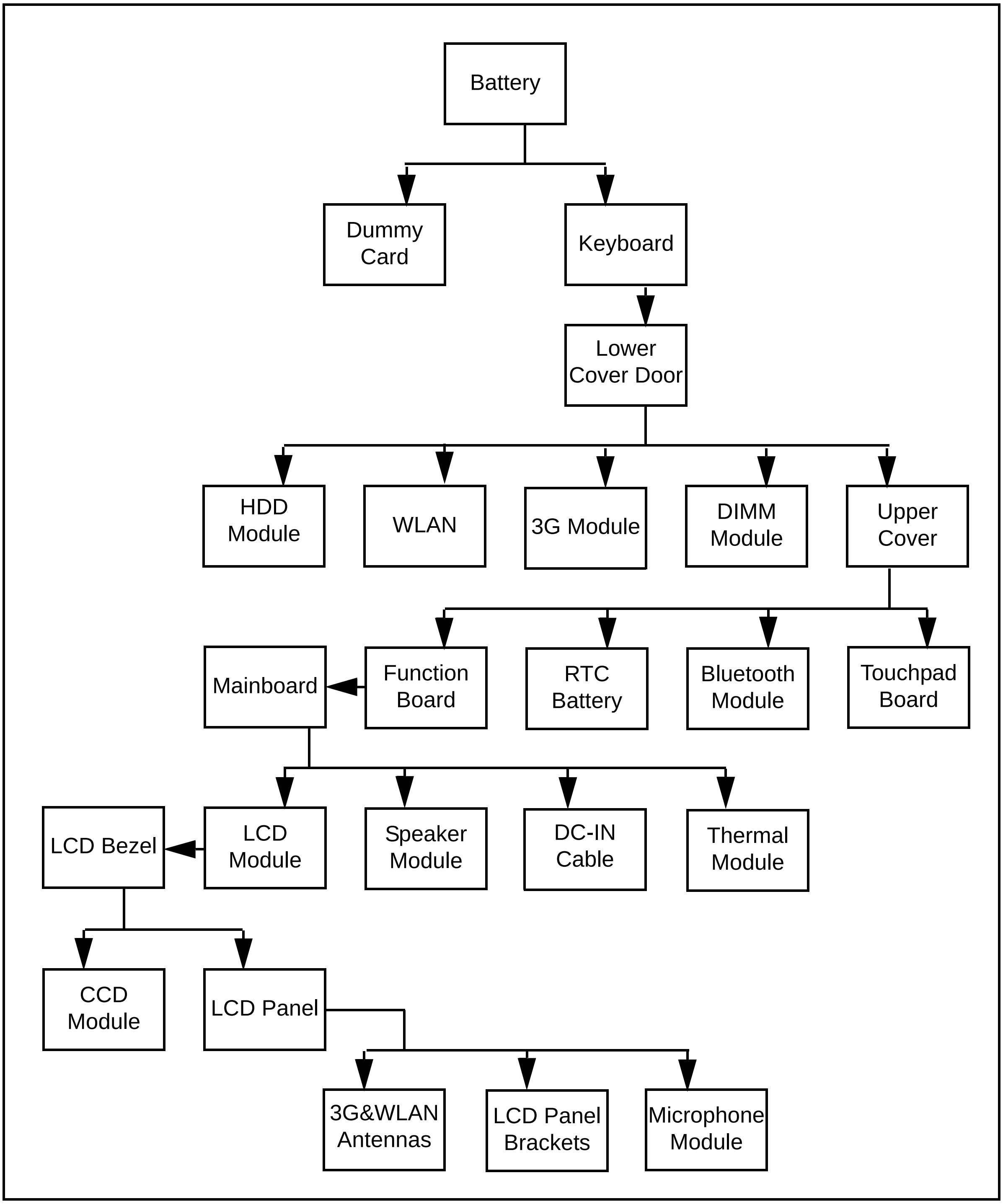


Figure 3-1. Maintenance Flow

Getting Started

Flowchart Figure 3-1 identifies sections illustrating the entire removal and install sequence. Observe the order of the sequence to avoid damage to any of the hardware components.

Perform the following prior to performing any maintenance procedures:

1. Remove power (A) from the system and peripherals.
2. Remove all cables from system.



Figure 3-2. AC Adapter

3. Place system on a stable work surface.

Battery Pack Removal

1. Place computer on flat surface, battery side up. (Figure 3-3)
2. Push battery lock/unlock latch (A) to unlock position.
3. Push and hold battery release latch (B) to release position.
4. Pull battery pack (C) from lower cover

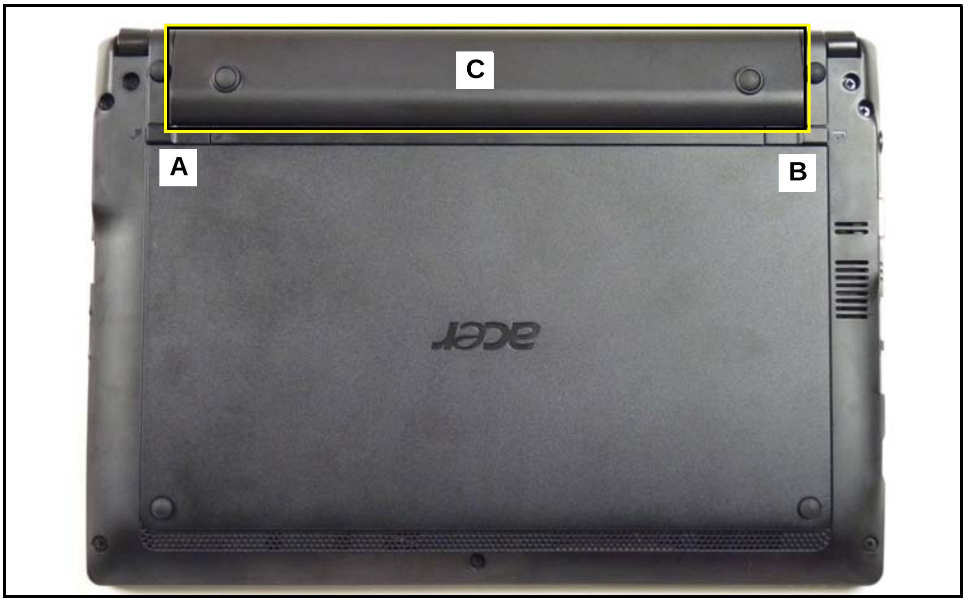


Figure 3-3. Lower Cover Overview with Battery

+ **IMPORTANT:**
Follow local regulations for battery (C, Figure 3-3) disposal.

Battery Pack Installation

1. Hold latch (B) in release position and install battery (C). (Figure 3-3)
2. Lock battery lock/unlock latch (A).

Dummy Card Removal

1. Push dummy card (A) in to release it from spring latch. (Figure 3-4)
2. Remove dummy card (A).



Figure 3-4. Dummy Card

Dummy Card Installation

1. Insert dummy card (A). (Figure 3-4)
2. Push card until spring latch locks.

Keyboard Removal

Prerequisite:

Battery Pack Removal

1. Locate and unlock three (3) latches above keys, **F4**, **F8**, and **F12**. (Figure 3-5)



Figure 3-5. Upper Cover Overview with Keyboard

CAUTION:

Keyboard FPC (Flexible Printed Circuit) can be damaged if removed while mainboard connector is locked. Do not remove keyboard from computer.

2. Place thumb beside power button (A) and push while lifting top edge of keyboard (B) from upper cover.

3. Flip keyboard over to show FPC (A) and mainboard connector (B). (Figure 3-6)

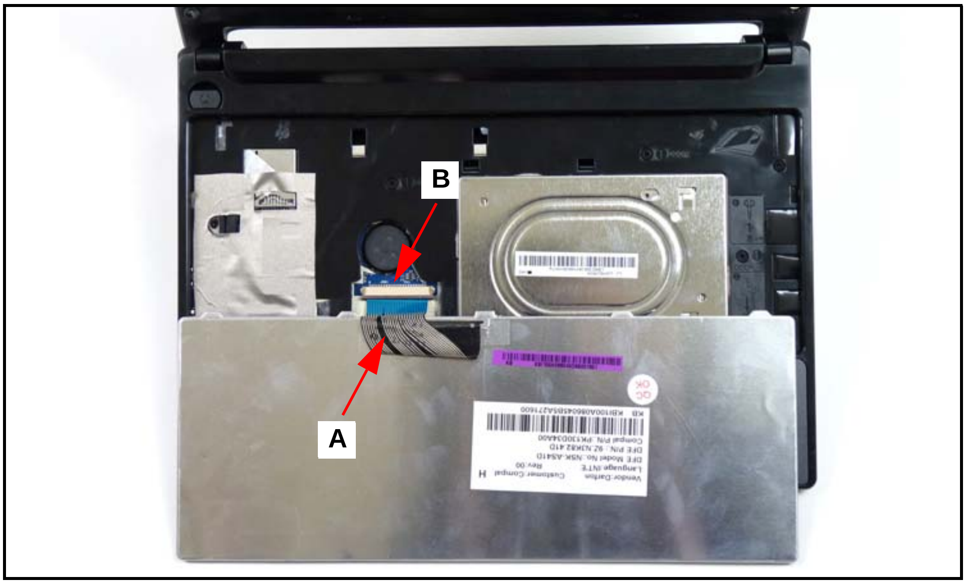


Figure 3-6. Keyboard and Keyboard FPC

4. Disconnect keyboard FPC (A) from mainboard connector (B).
5. Remove keyboard from upper cover.

Keyboard Installation

1. Place keyboard on upper cover. (Figure 3-6)
2. Connect keyboard FPC (A) to mainboard connector (B).
3. Flip keyboard over. (Figure 3-5)
4. Align and secure three (3) latches above keys, **F4**, **F8**, and **F12**.
5. Install battery pack.

Lower Cover Door Removal

Prerequisite:

Battery Pack Removal

1. Remove four (4) screws (A) lower cover. (Figure 3-7)

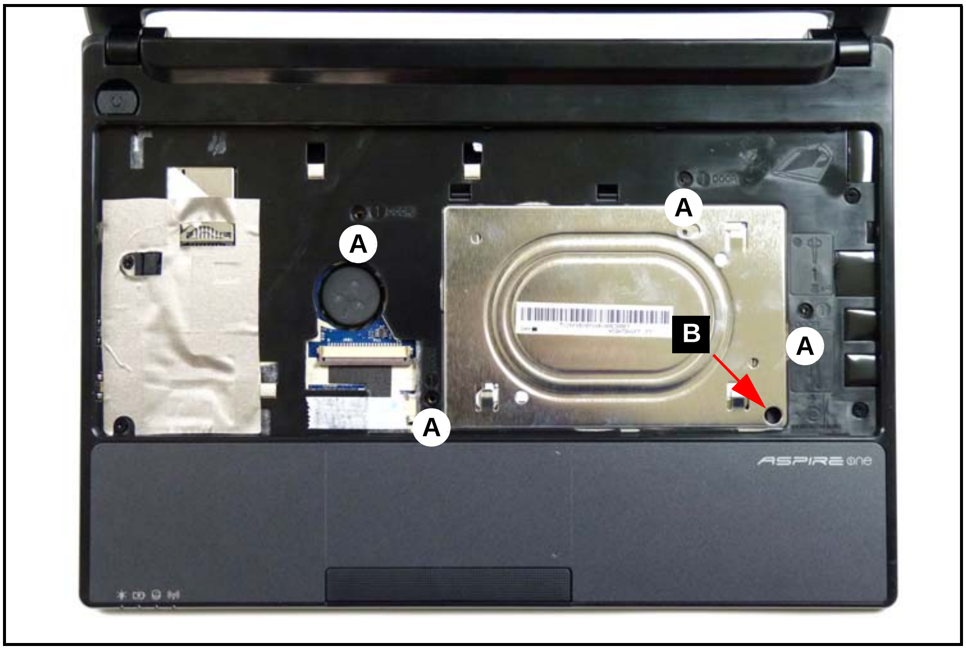


Figure 3-7. Upper Cover without Keyboard

2. Use a tool to push through opening (B) to separate door from lower cover.
3. Remove door from lower cover.

Lower Cover Door Installation

1. Insert door flanges (Figure 3-8) into slots on lower cover.

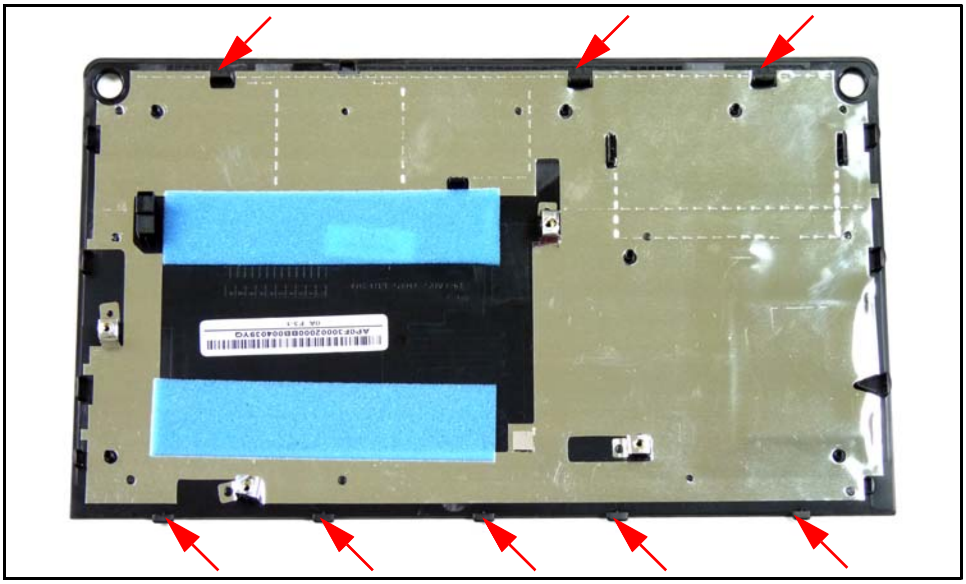


Figure 3-8. Lower Cover Door

2. Secure door to lower cover with four (4) screws (A). (Figure 3-7)
3. Install battery pack.

ID	Size	Quantity	Image
A	M2x7	4	

HDD (Hard Disk Drive) Module Removal

Prerequisite:

Lower Cover Door Removal

1. Locate HDD module (A) on lower cover. (Figure 3-9)

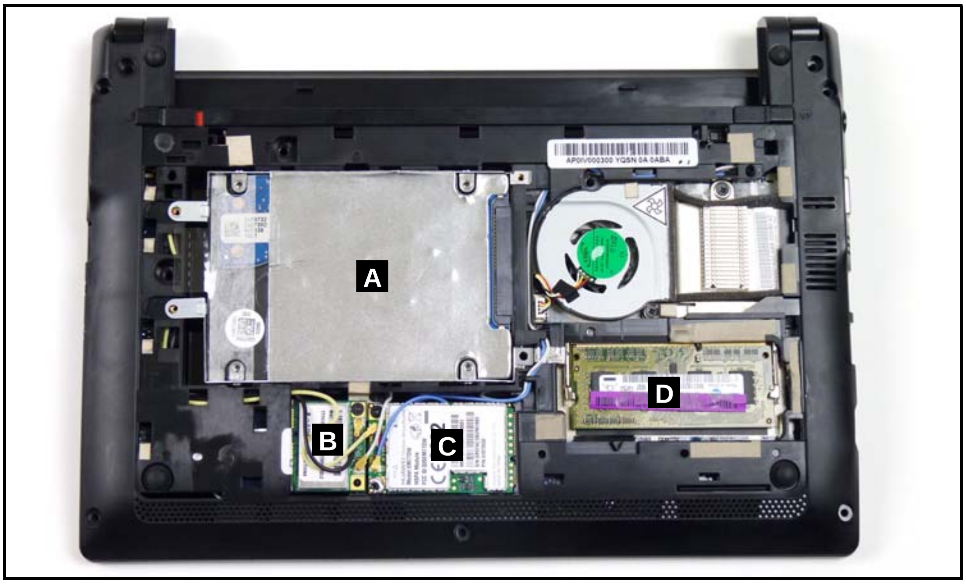


Figure 3-9. Lower Cover Overview with Base Door Removed

2. Remove three (3) screws (B) from lower cover. (Figure 3-10)

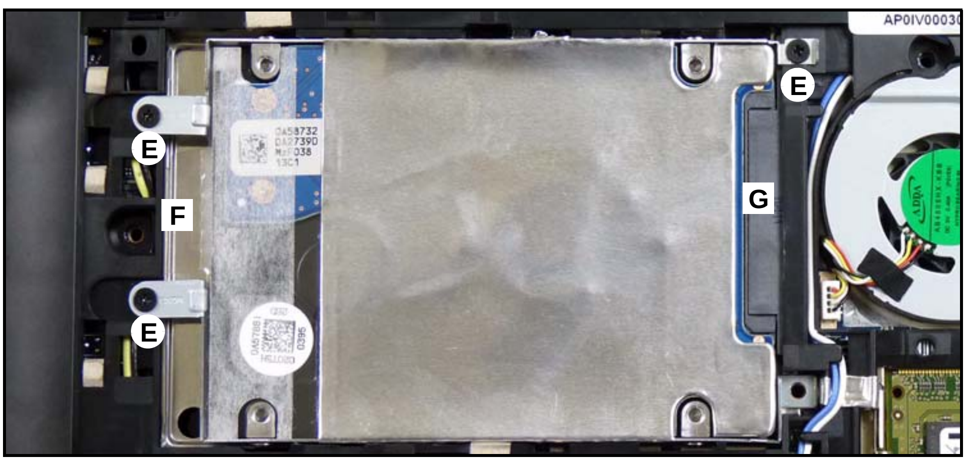


Figure 3-10. HDD Module in Lower Cover

3. Using mylar tab (F), disconnect module from mainboard connector (G).
4. Lift module out of module bay.
5. Remove four (4) screws (H) from module. (Figure 3-11)

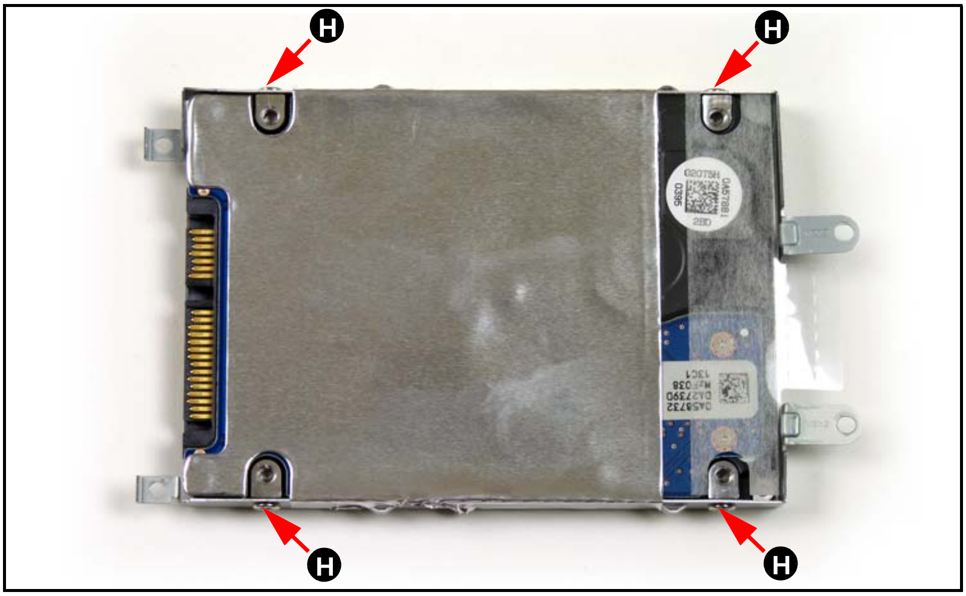


Figure 3-11. **HDD Carrier with Module**

6. Remove HDD module from carrier.



Figure 3-12. **HDD Carrier without Module**

HDD Module Installation

1. Install module in carrier. (Figure 3-11)
2. Install and secure four (4) screws (H) to module.
3. Place module into bay. (Figure 3-10)
4. Connect module to mainboard connector (G).

5. Install and secure three (3) screws (E) to lower cover.
6. Install lower cover door.

ID	Size	Quantity	Image
E	M2x3 t=0.04	3	
H	M3x3 Ni	4	

DIMM (Dual In-line Memory Module) Module Removal

Prerequisite:

Lower Cover Door Removal

1. Locate module (D) on lower cover. (Figure 3-9)
2. Push module clips (A) outwards. (Figure 3-13)

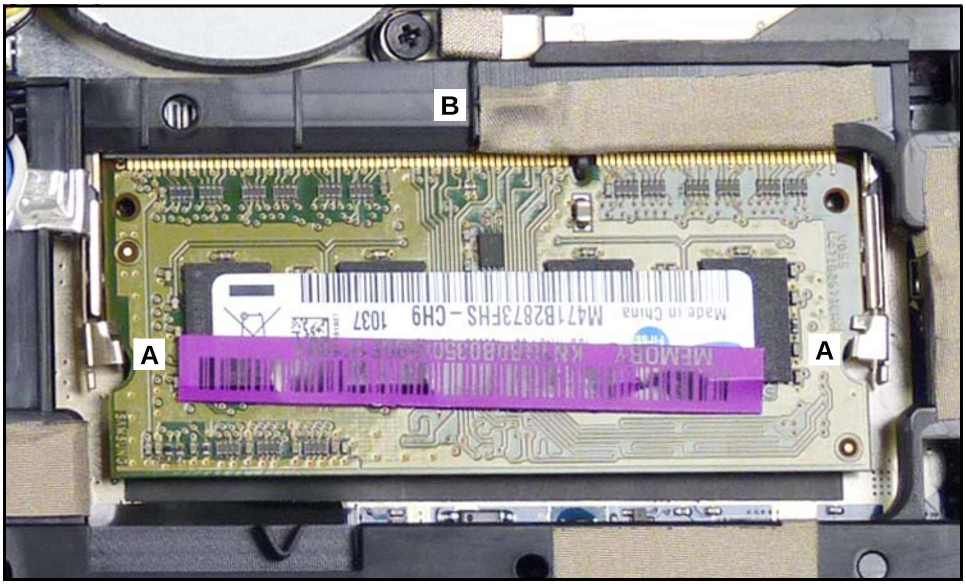


Figure 3-13. DIMM Modules

3. Pull module out of mainboard connector (B).

DIMM Module Installation

1. Connect module to mainboard connector (B) (Figure 3-13).
2. Push down on module until clips (A) lock in place.
3. Install lower cover door.

WLAN (Wireless Local Area Network) Module Removal

Prerequisite:

Lower Cover Door Removal

1. Locate module (B) on lower cover. (Figure 3-9)
2. Disconnect main (D) and auxiliary (E) antenna cables from module. (Figure 3-14)

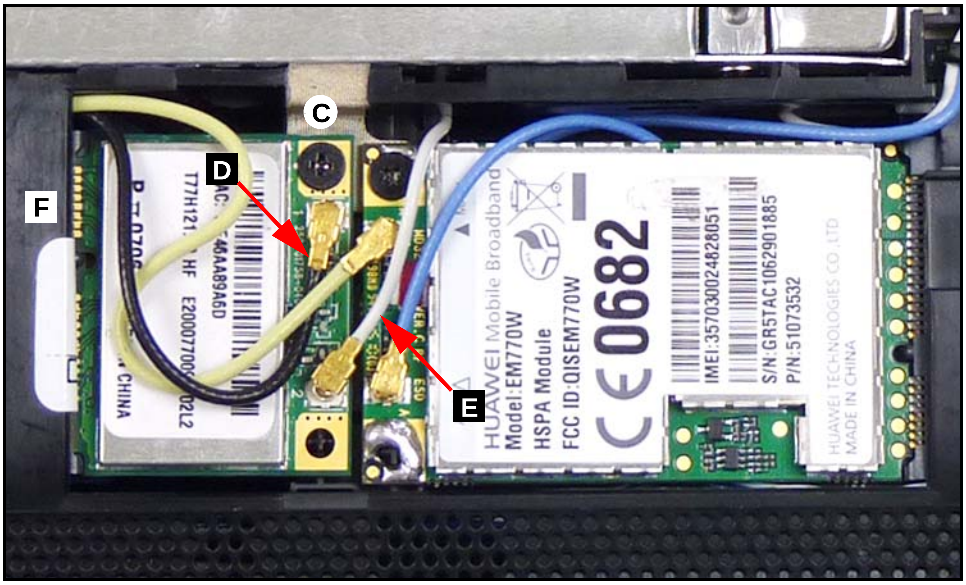


Figure 3-14. WLAN Module with Antenna Cables

NOTE:

Main (black) antenna connector is close to ODD module. Auxiliary (white) antenna connector is close to battery bay.

3. Remove screw (C) from mainboard.
4. Remove module from mainboard connector (F).

WLAN Module Installation

1. Connect module to mainboard connector (F) (Figure 3-14).
2. Install and secure screw (C) to mainboard.
3. Connect main (D) and auxiliary (E) antenna cables to WLAN module connectors.
4. Install lower cover door.

ID	Size	Quantity	Image
C	M2x3 t=0.04	1	

3G Module Removal

Prerequisite:

Lower Cover Door Removal

1. Locate module (C) on lower cover. (Figure 3-9)
2. Disconnect main (E) and auxiliary (F) antenna cables from module. (Figure 3-15)

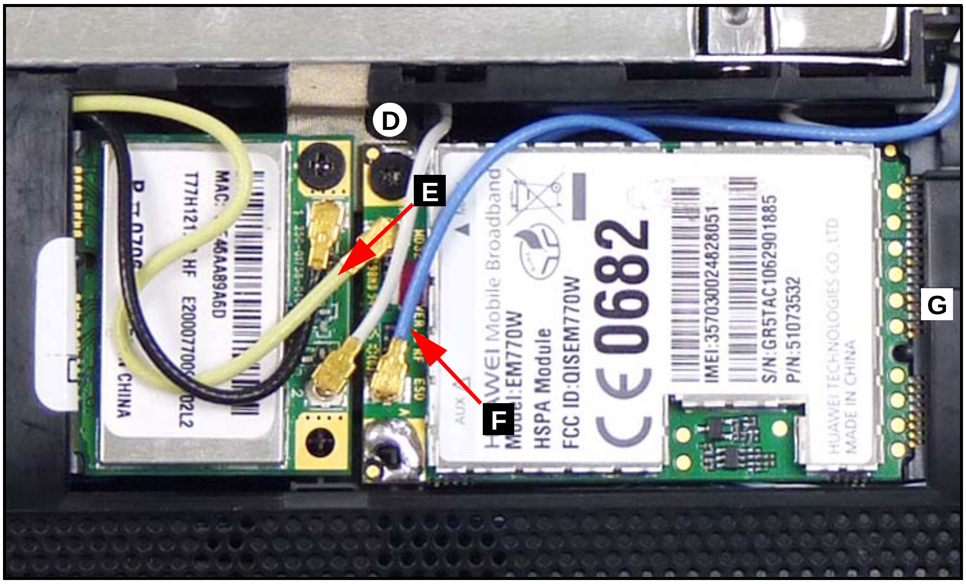


Figure 3-15. 3G Module with Antenna Cables

NOTE:

Main (yellow) antenna connector is close to HDD module. Auxiliary (blue) antenna connector is close to front edge of computer.

3. Remove screw (D) from mainboard.
4. Remove module from mainboard connector (G).

3G Module Installation

1. Insert module into mainboard connector (D). (Figure 3-15)
2. Install and secure screw (D) to mainboard.
3. Connect main (E) and auxiliary (F) antenna cables on 3G module.
4. Install and secure screw (D) to mainboard.
5. Install lower cover door.

ID	Size	Quantity	Image
D	M2x3 t=0.04	1	

Upper Cover Removal

Prerequisite:

Lower Cover Door Removal

1. Remove seven (7) screws (A) from upper cover. (Figure 3-16)

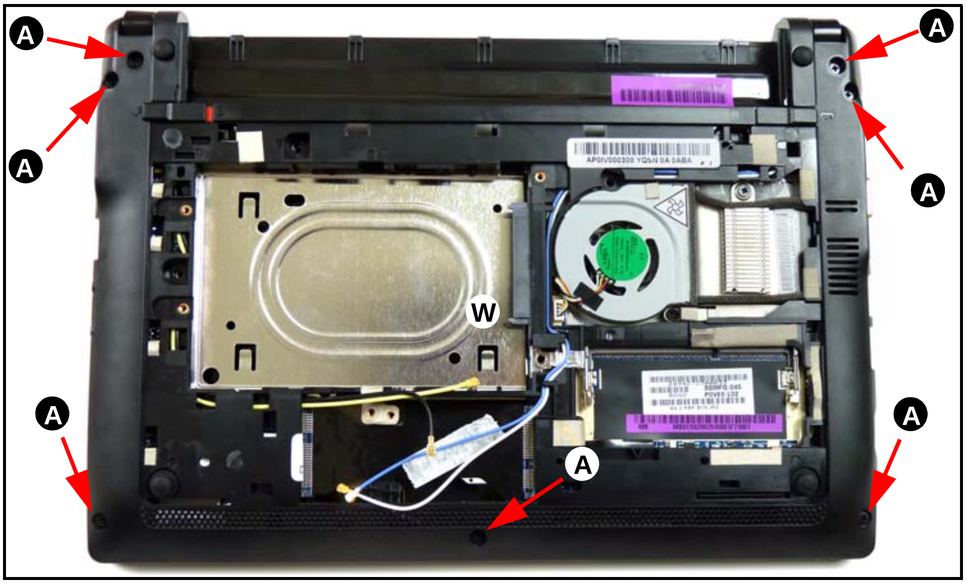


Figure 3-16. Lower Cover Screws

2. Remove four (4) screws (B) from mainboard. (Figure 3-17)



Figure 3-17. Upper Cover Screws

NOTE:
Do not remove EMI (Electromagnetic Interference) strip (C) from upper cover.

3. Unlock latch (C) on right side of battery bay. (Figure 3-18)

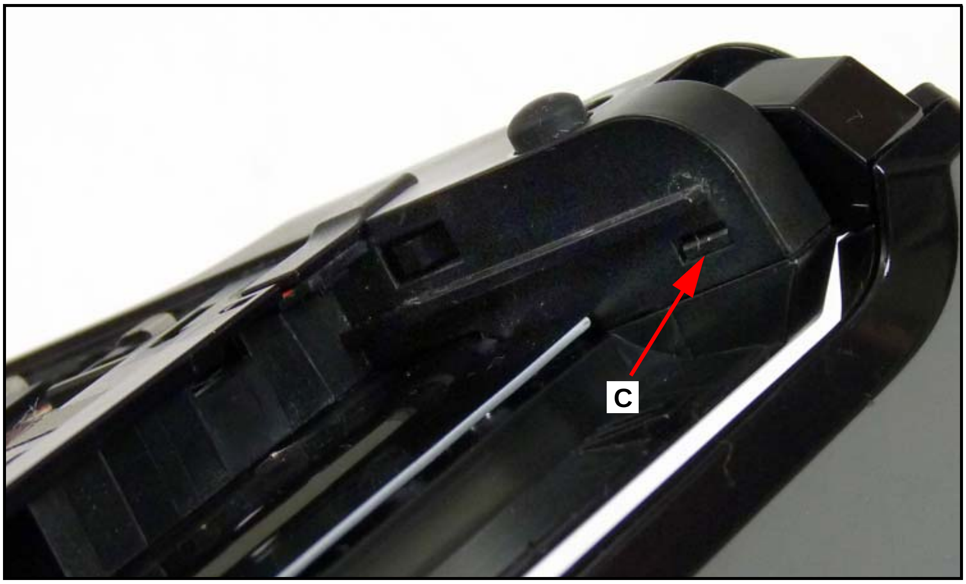


Figure 3-18. Right Side of Battery Bay

4. Repeat step three for latch on left side of battery bay.
5. Lift top edge of upper cover while pushing down on edge of lower cover to unlock remaining latches. (Figure 3-19)



Figure 3-19. Upper Cover without Screws

6. Remove upper cover from lower cover.

Upper Cover Installation

1. Install and secure upper cover latches on lower cover. (Figure 3-19)
2. Install and secure four (4) screws (B) to mainboard. (Figure 3-17)
3. Turn computer over to show lower cover.
4. Install and secure seven (7) screws (A) to upper cover. (Figure 3-16)
5. Install lower cover door.

ID	Size	Quantity	Image
A	M2x5	7	
B	M2x7	4	

Touchpad Board Removal

Prerequisite:

Upper Cover Removal

NOTE:

If touchpad module malfunctions, replace upper cover.

1. Locate touchpad board (A), board FFC (B) to touchpad module connector (C), and board FFC (D) to mainboard connector on upper cover. (Figure 3-20)

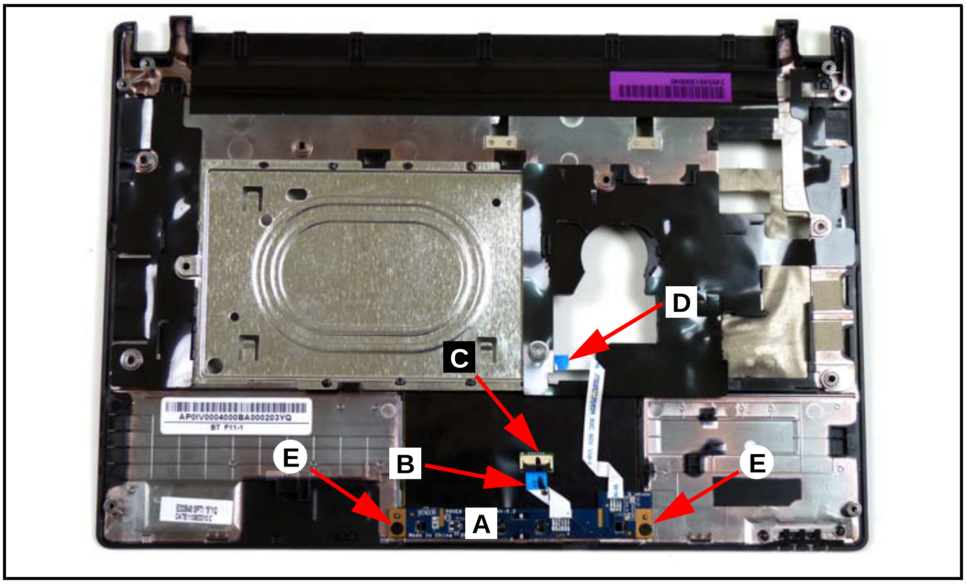


Figure 3-20. Upper Cover with Touchpad Board and FFC

2. Disconnect board FFC (B) from touchpad module connector (C).
3. Remove board FFC (D) from adhesive strip on touchpad module.
4. Remove two (2) screws (E) from board.
5. Remove board (A) from upper cover.

Touchpad Board Installation

1. Install and align board (A, Figure 3-20) to upper cover guide pins (F). (Figure 3-21)

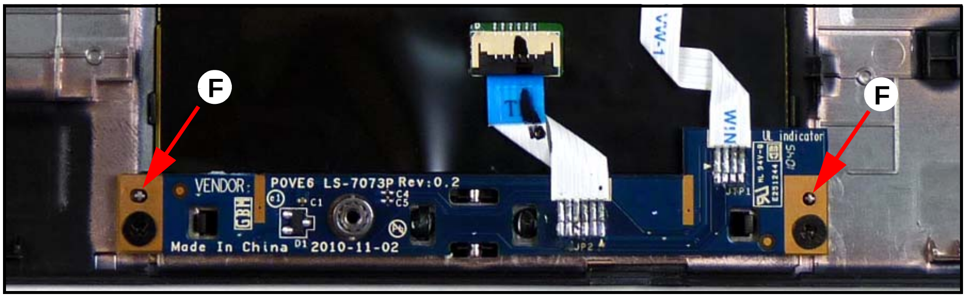


Figure 3-21. Touchpad Board with Screws

2. Install and secure two (2) screws (E) to board. (Figure 3-20)
3. Install board FFC (D) to adhesive strip on touchpad module.
4. Connect board FFC (B) to touchpad module connector (C).
5. Install upper cover.

ID	Size	Quantity	Image
E	M2x3 t=0.04	2	

Function Board Removal

Prerequisite:

Upper Cover Removal

1. Locate function board (A) on lower cover. (Figure 3-22)

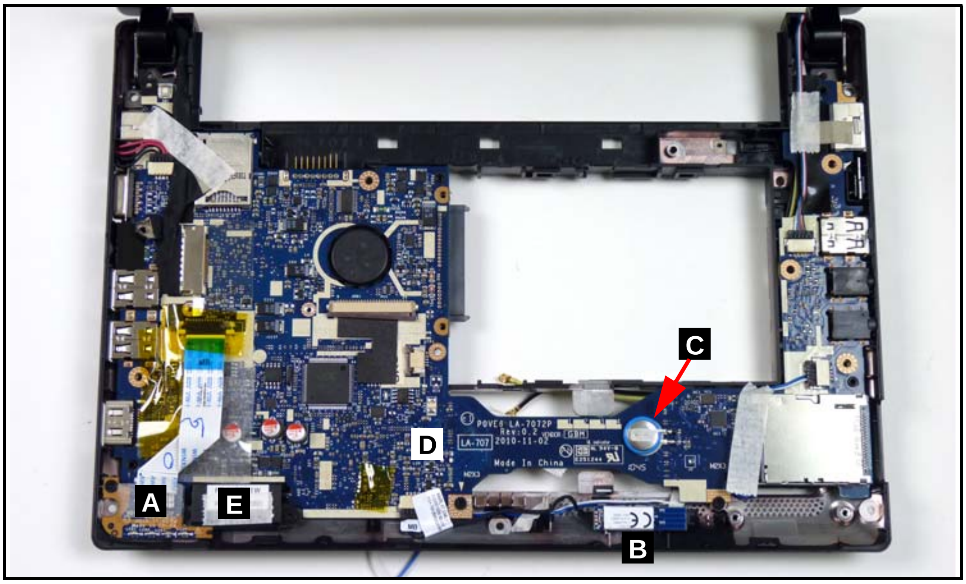


Figure 3-22. Lower Cover Overview with Mainboard

2. Remove tape covering board FFC (B) and mainboard connector (C). (Figure 3-23)

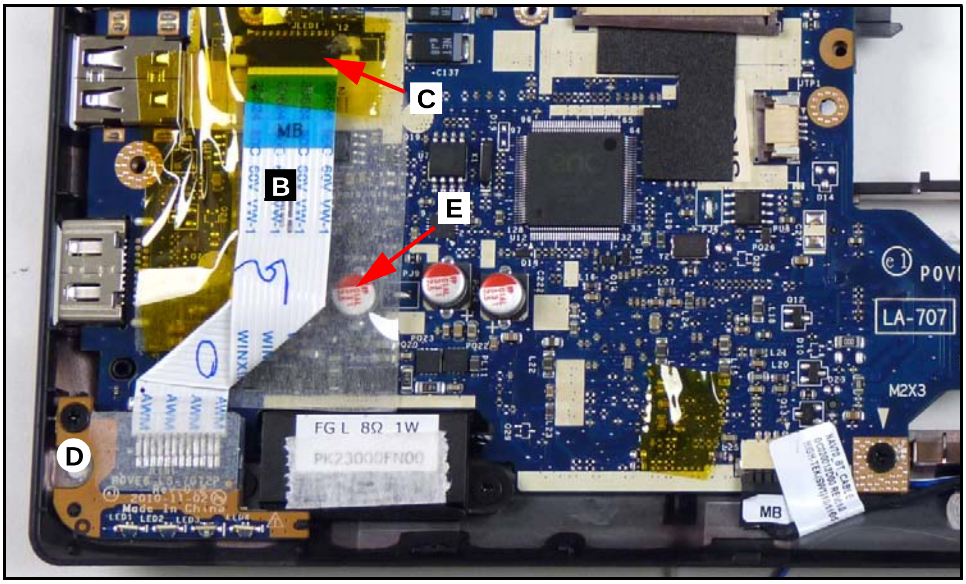


Figure 3-23. Function Board with FFC

NOTE:

Do not remove tape preventing FFC (B) from touching power contacts (E).

3. Disconnect board FFC (B) from mainboard connector (C).
4. Remove screw (D) from mainboard.
5. Remove board from lower cover.

Function Board Installation

1. Install board on lower cover. (Figure 3-23)
2. Install and secure screw (D) to mainboard.
3. Connect board FFC (B) to mainboard connector (C).
4. Install tape covering board FFC (B) and mainboard connector (C). (Figure 3-23)
5. Install upper cover.

ID	Size	Quantity	Image
D	M2x3 t=0.04	1	

Bluetooth Module Removal

Prerequisite:

Upper Cover Removal

1. Locate Bluetooth module (B) on upper cover. (Figure 3-22)
2. Disconnect module cable (D) from mainboard connector (C). (Figure 3-24)

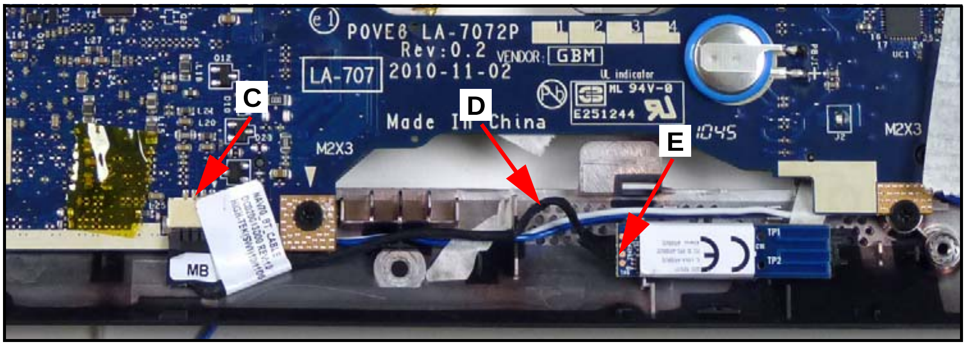


Figure 3-24. Bluetooth Module with Cable

3. Lift module from adhesive strip on upper cover.
4. Disconnect module cable (D) from module connector (E).

Bluetooth Module Installation

1. Connect module cable (D) to module connector (E). (Figure 3-24)
2. Install and secure module to adhesive strip on upper cover.
3. Connect module cable (D) to mainboard connector (C).
4. Install upper cover.

RTC Battery Removal

Prerequisite:

Upper Cover Removal

1. Locate RTC battery (A) on mainboard. (Figure 3-22)
2. Break solder connection (B) from battery to mainboard. (Figure 3-25)

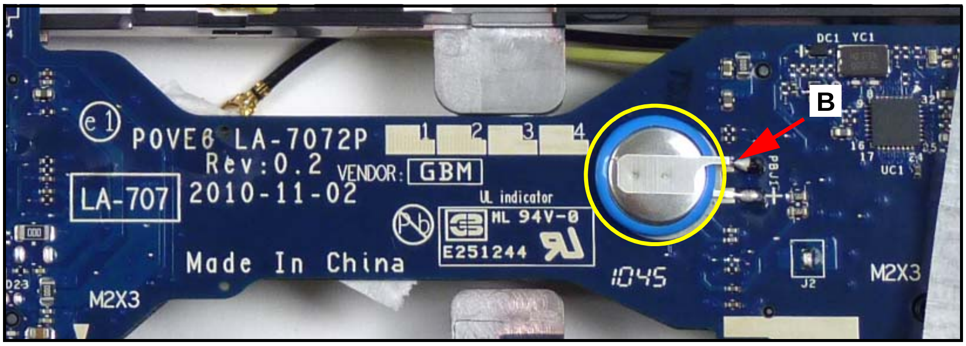


Figure 3-25. RTC Battery

3. Remove battery from mainboard.

+ **IMPORTANT:**

Follow local regulations for battery (Figure 3-25) disposal.

RTC Battery Installation

1. Install RTC battery (A) on mainboard. (Figure 3-25)
2. Solder connection (B) from battery to mainboard.
3. Install upper cover.

Mainboard Removal

Prerequisite:

Function Board Removal

1. Locate mainboard (D) on lower cover. (Figure 3-22)
2. Disconnect DC-IN cable (E) from mainboard connector (F). (Figure 3-26)

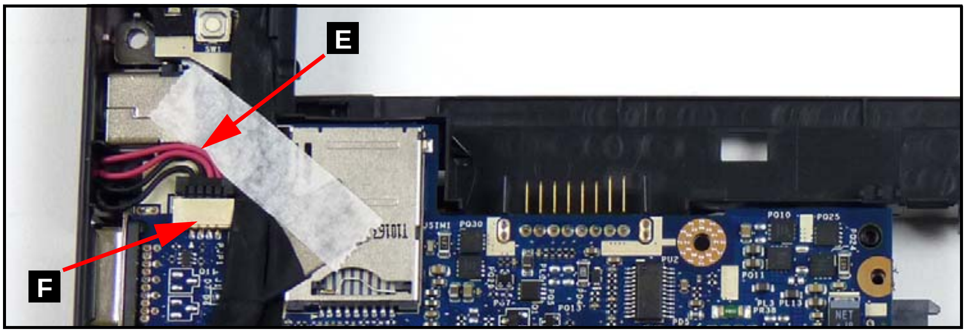


Figure 3-26. DC-IN Cable and Mainboard Connector

3. Disconnect LVDS cable (G) from mainboard connector (H). (Figure 3-27)

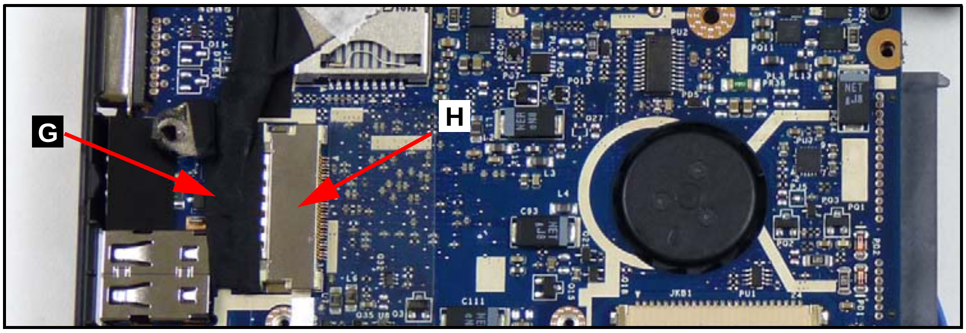


Figure 3-27. LVDS Cable and Mainboard Connector

4. Disconnect speaker cable (J) from mainboard connector (K). (Figure 3-28)

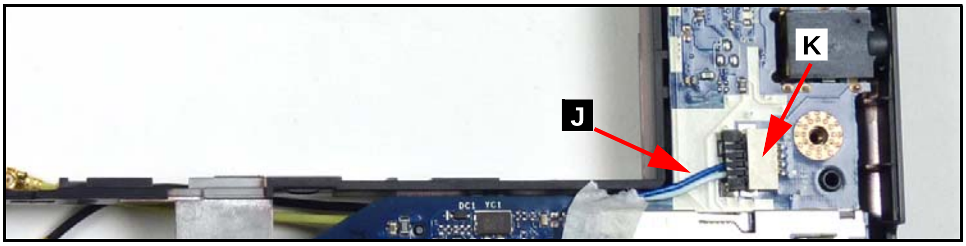


Figure 3-28. Speaker Cable and Mainboard Connector

5. Disconnect microphone cable (L) from mainboard connector (M). (Figure 3-29)

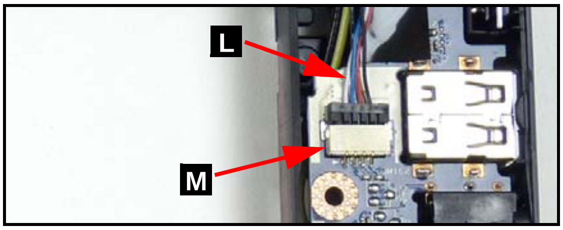


Figure 3-29. Microphone Cable and Mainboard Connector

6. Remove two (2) screws (N) from lower cover. (Figure 3-30)

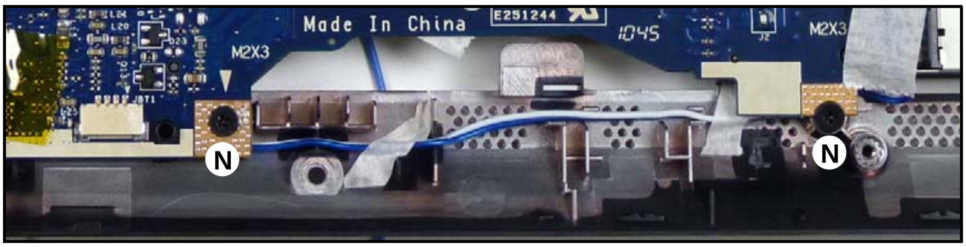


Figure 3-30. Mainboard Screws

7. Hold lower cover (P) while lifting the mainboard at bridge section (Q). (Figure 3-31)

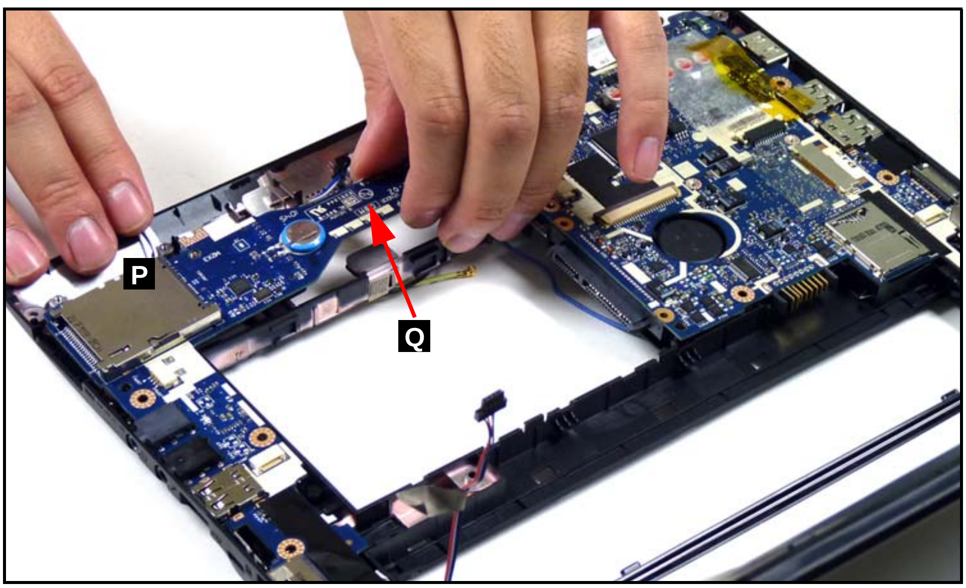


Figure 3-31. Mainboard Bridge

8. Remove mainboard from lower cover by pulling away from left side.

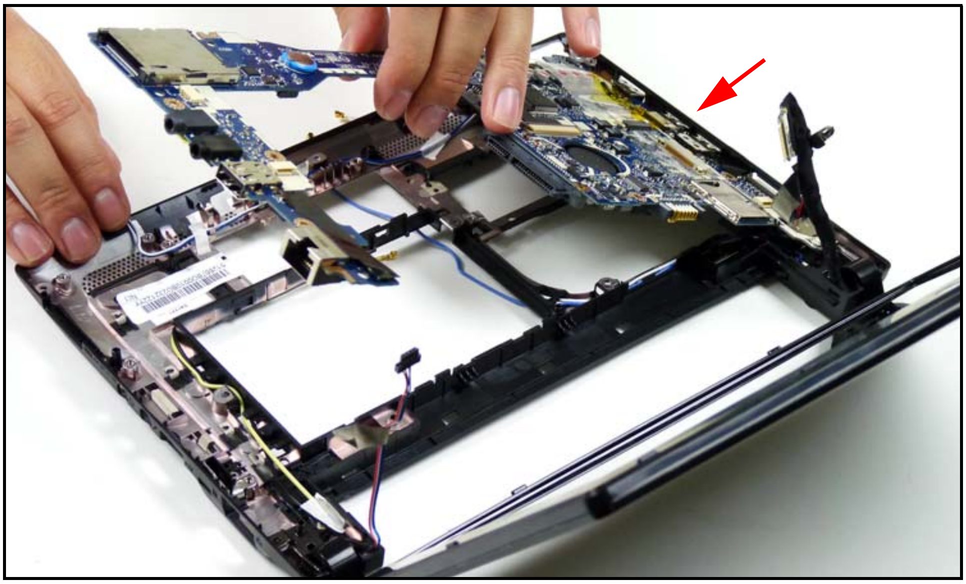


Figure 3-32. Mainboard Connectors

NOTE:

Connectors on left side of mainboard (i.e. USB) are set in lower cover slots. Do not force mainboard when removing.

Mainboard Installation

1. Install mainboard by sliding left side at a slight angle into slots on left side of lower cover. (Figure 3-32)

NOTE:

Connectors on left side of mainboard (i.e. USB, etc.) are set in lower cover slots. Do not force mainboard when trying to install it.

2. Lower right side of mainboard until edge is flush with lower cover. (Figure 3-31)
3. Install and secure two (2) screws (N) to lower cover. (Figure 3-30)
4. Connect microphone cable (L) to mainboard connector (M). (Figure 3-29)
5. Connect speaker cable (J) to mainboard connector (K). (Figure 3-28)
6. Connect LVDS cable (G) to mainboard connector (H). (Figure 3-27)
7. Connect DC-IN cable (E) to mainboard connector (F). (Figure 3-26)
8. Install function board.

ID	Size	Quantity	Image
D	M2x3 t=0.04	2	

Thermal Module Removal

Prerequisite:

Mainboard Removal

1. Locate thermal module (A) on mainboard. (Figure 3-33)

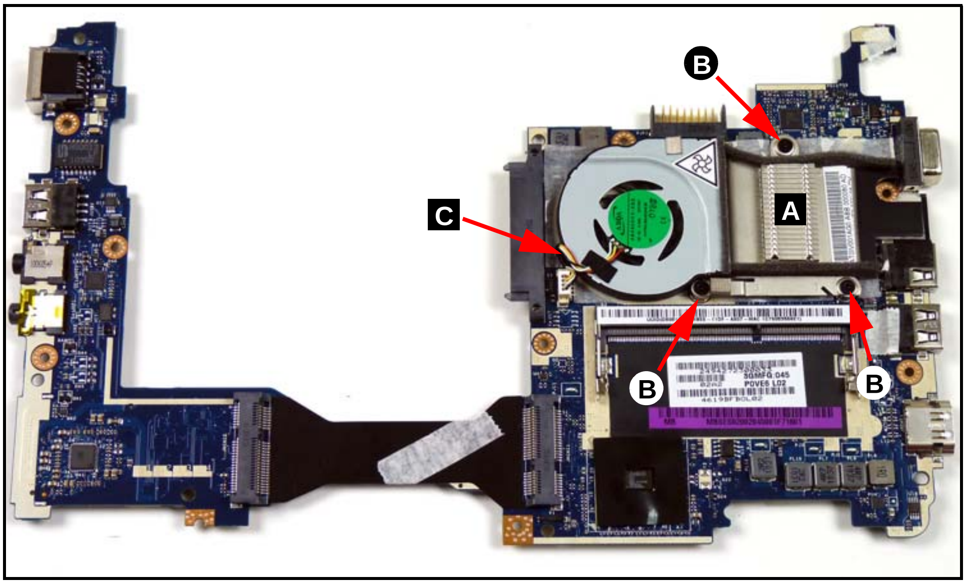


Figure 3-33. Thermal Module on Mainboard

2. Disconnect module cable (C) from mainboard connector.
3. Remove three (3) screws (B) from mainboard.
4. Remove thermal module (A) from mainboard.

Thermal Module Installation

+ **IMPORTANT:**

Apply suitable thermal grease and ensure all heat pads are in place before replacing module.

CAUTION:

Make sure thermal grease does not spill on mainboard because it may cause damage.

The following thermal grease types are approved for use:

- Silmore GP50
- Honeywell
- Jet Motor 7762

The following thermal pads are approved for use:

- Eapus XR-PE

1. Remove all traces of thermal grease from CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply small amount of thermal grease to center of CPU.

NOTE:

Force used during installation of thermal module is sufficient to spread grease over CPU top.

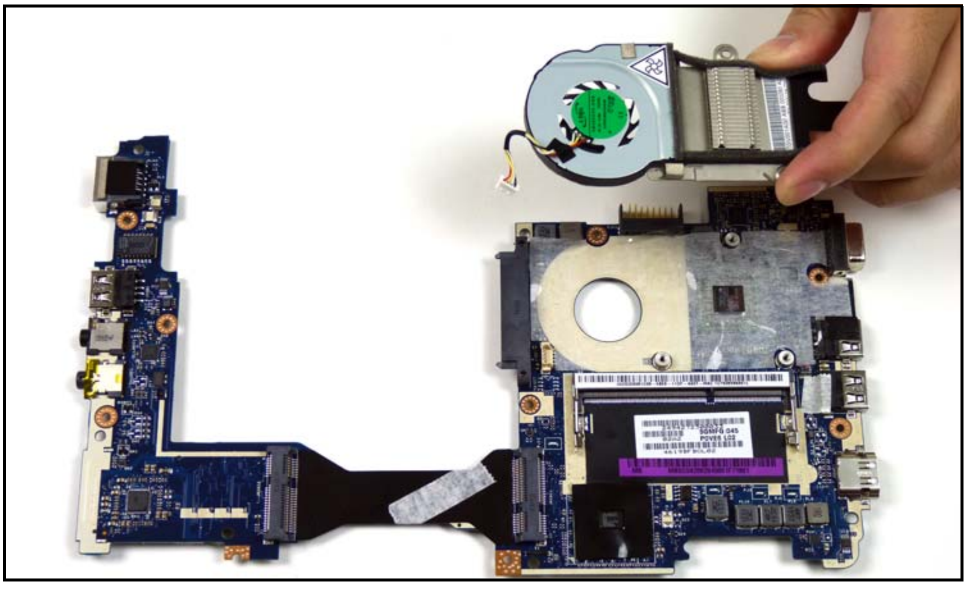


Figure 3-34. Thermal Module Installation

3. Align module and heatsink to mainboard screw holes. (Figure 3-34)

NOTE:

Keep module level to spread grease evenly.

4. Install and secure three (3) screws (B) in numerical order from one (1) to three (3) to mainboard. (Figure 3-33)
5. Connect module cable (C) to mainboard connector.
6. Install mainboard.

ID	Size	Quantity	Image
B	M2x3 t=0.04	3	

DC-IN Cable Removal

Prerequisite:

Mainboard Removal

1. Locate cable and jack (A) on lower cover. (Figure 3-35)

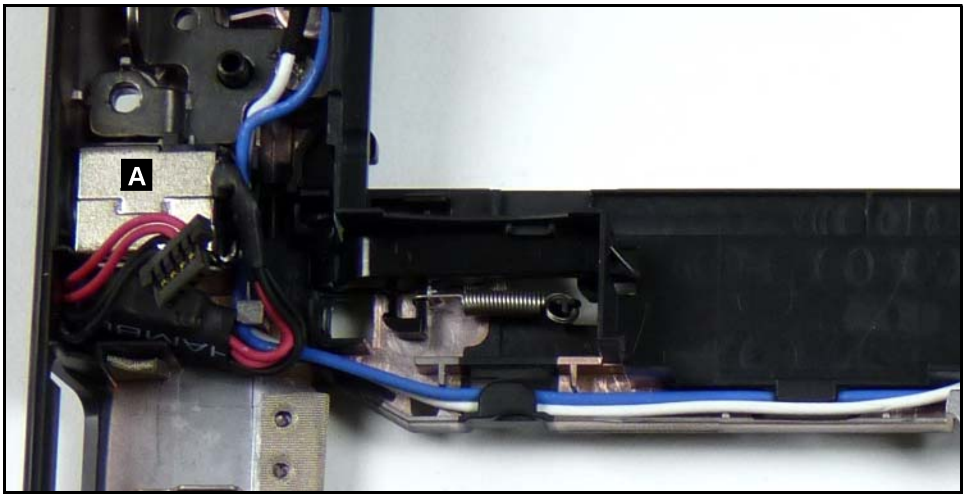


Figure 3-35. DC-IN Cable and Jack on Lower Cover

2. Remove cable and jack from lower cover.

DC-IN Cable Installation

1. Install and secure cable and jack (A) on lower cover. (Figure 3-35)
2. Install mainboard.

Speaker Module Removal

Prerequisite:

Mainboard Removal

1. Locate module (E) on upper cover. (Figure 3-22)
2. Remove two (2) screws from lower cover. (Figure 3-36)

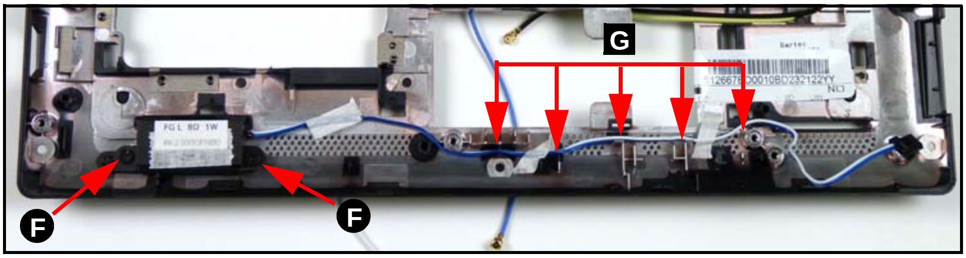


Figure 3-36. Lower Cover with Speaker Module

3. Remove module cable from lower cover guides (G).
4. Remove module and cable from lower cover.

Speaker Module Installation

1. Install module and cable to lower cover. (Figure 3-36)
2. Secure module cable to guides on lower cover (G).
3. Install and secure two (2) screws to lower cover.
4. Install mainboard.

ID	Size	Quantity	Image
B	M2x3 t=0.04	2	

LCD (Liquid Crystal Display) Module Removal

Prerequisite:

Mainboard Removal

1. Locate 3G and WLAN cables on lower cover. (Figure 3-37)
2. Remove 3G and WLAN antenna cables from lower cover guides (A).

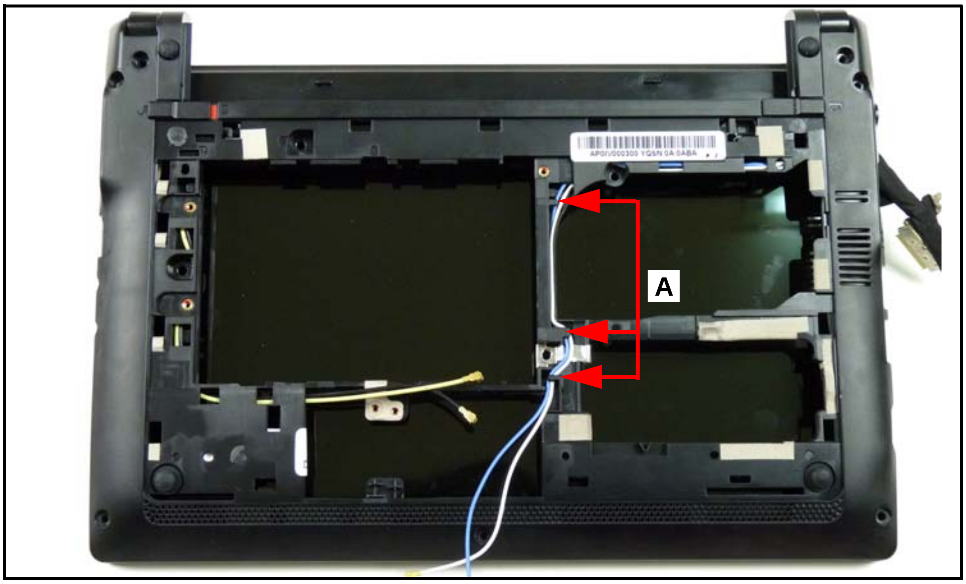


Figure 3-37. Lower Cover Base View with Antenna Cables

3. Flip computer over onto lower cover base. (Figure 3-38)

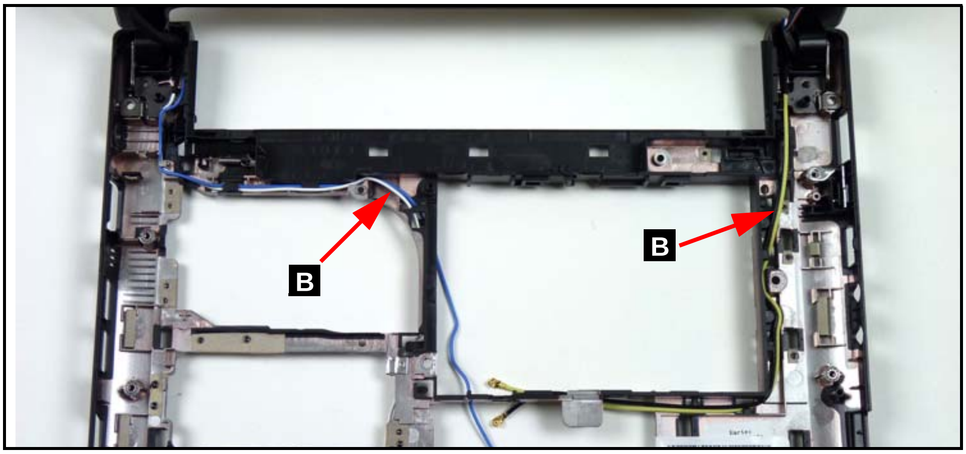


Figure 3-38. Lower Cover with 3G and WLAN Antennas Cables

4. Disconnect 3G and WLAN antenna cables (B) from lower cover guides.

5. Remove two (2) screws (C) from left and right hinges. (Figure 3-39)



Figure 3-39. LCD Module Hinge Screws

6. Remove LCD Module from lower cover. (Figure 3-40)



Figure 3-40. LCD Module Removal from Lower Cover

⚠ **CAUTION:**
Make sure all cables are clear of device to avoid damage during removal.

LCD Module Installation

1. Install LCD module on lower cover. (Figure 3-40)
2. Install and secure two (2) screws (C) to lower cover. (Figure 3-39)

3. Install 3G and WLAN antenna cables (B) to lower cover guides. (Figure 3-38)
4. Flip computer over onto LCD Module cover. (Figure 3-37)
5. Install 3G and WLAN antenna cables to lower cover guides (A).
6. Install mainboard.

ID	Size	Quantity	Image
C	M2x4 Ni	2	

LCD Bezel Removal

Prerequisite:

LCD (Liquid Crystal Display) Module Removal



Figure 3-41. LCD Module Overview with Bezel

1. Remove the two (2) screw caps and two (2) screws (A) from the module. (Figure 3-41)
2. Starting from the bottom-center of the bezel, remove bezel from LCD cover latches. Move along edge until bezel is completely removed. (Figure 3-42)



Figure 3-42. LCD Module Bezel without Screws

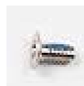
LCD Bezel Installation

1. Locate bezel hinges covers (B) on LCD cover (Figure 3-41).

NOTE:

Make sure LCD cables pass through hinge wells and are not trapped by bezel.

2. Secure hinge covers to LCD module cover hinge wells.
3. Starting from bottom-center of bezel, secure bezel to LCD cover latches. Move along edge until bezel is completely secured. (Figure 3-42)
4. Install and secure two (2) screws (A) and mylar covers to bezel. (Figure 3-41)
5. Install LCD Module.

ID	Size	Quantity	Image
C	M2x4 Ni	2	

CCD (Charge-Coupled Device) Module Removal

Prerequisite:

LCD Bezel Removal

1. Locate CCD module (A) on LCD module cover. (Figure 3-43)

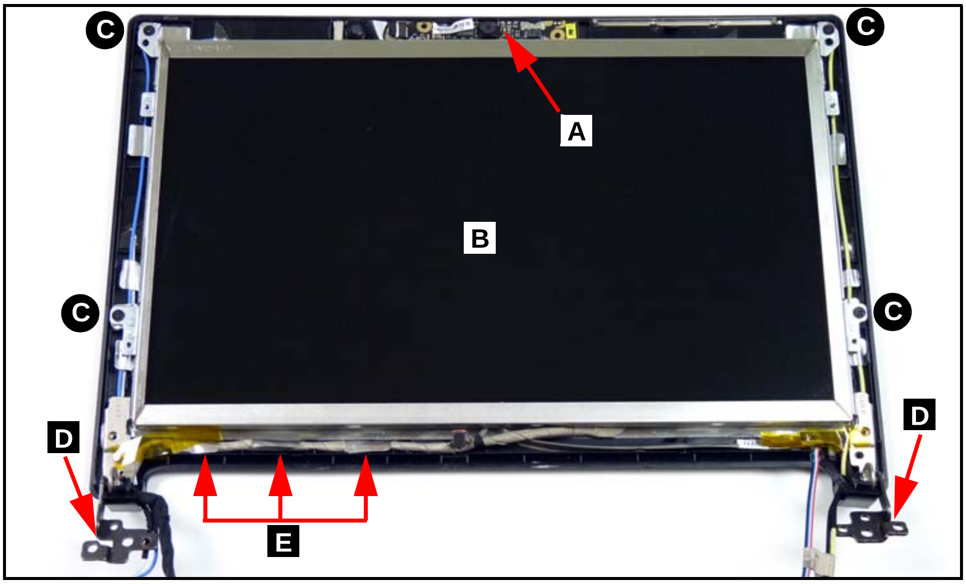


Figure 3-43. LCD Module Overview without Bezel

2. Remove module cable (F) from module connector (G). (Figure 3-44)

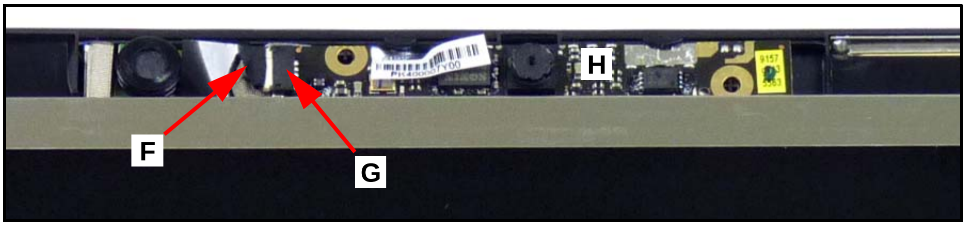


Figure 3-44. CCD Module with Cable

3. Remove module (H) from adhesive strip on LCD cover.

CCD (Charge-Coupled Device) Module Installation

1. Install and secure module (H) to LCD module cover (Figure 3-44).
2. Install module cable (F) to module connector (G).
3. Install LCD Bezel.

LCD Panel Removal

Prerequisite:

CCD (Charge-Coupled Device) Module Removal

1. Locate LCD panel (B) on module cover. (Figure 3-43)
2. Remove four (4) screws (C) from module cover.
3. Lift adhesive foil tabs (E) covering LVDS cable.
4. Remove panel from module cover.
5. Turn panel over and place face down on a clean surface (Figure 3-45).

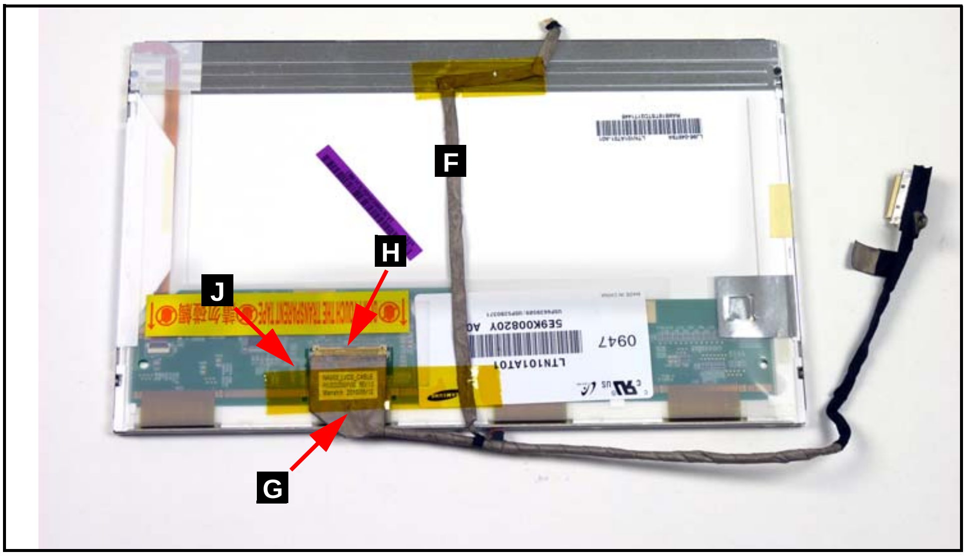


Figure 3-45. LCD Panel with LVDS Cable

6. Remove CCD module cable (F) from panel.
7. Pull back transparent adhesive protector (J) securing LVDS cable (G) to panel.
8. Disconnect LVDS cable (G) from panel connector (H).
9. Remove LVDS cable (G) from panel.

LCD Panel Installation

1. Install and connect LVDS cable (G) to panel connector (H). (Figure 3-45).
2. Secure transparent adhesive protector (J) to LVDS cable (G) and panel.
3. Install and secure CCD module cable (F) to panel.
4. Install LCD panel to LCD module cover. (Figure 3-43)
5. Secure adhesive foil tabs (E) securing LVDS cable to module cover.
6. Install and secure four (4) screws (C) to module cover.
7. Install CCD module.

ID	Size	Quantity	Image
C	M2x3	4	

LCD Panel Brackets Removal

Prerequisite:

LCD Panel Removal

1. Remove four (4) screws (A) from panel. (Figure 3-46)



Figure 3-46. LCD Brackets Module

2. Remove brackets (B) from panel.

LCD Panel Brackets Installation

1. Install brackets (B) on panel (Figure 3-46).
2. Install and secure four (4) screws (A) to panel.
3. Install LCD panel.

ID	Size	Quantity	Image
A	M2x2.5	4	

3G and WLAN Antenna Removal

Prerequisite:

LCD Panel Removal

1. Lift foil tabs (A) covering left 3G and WLAN antennas (B). (Figure 3-47)

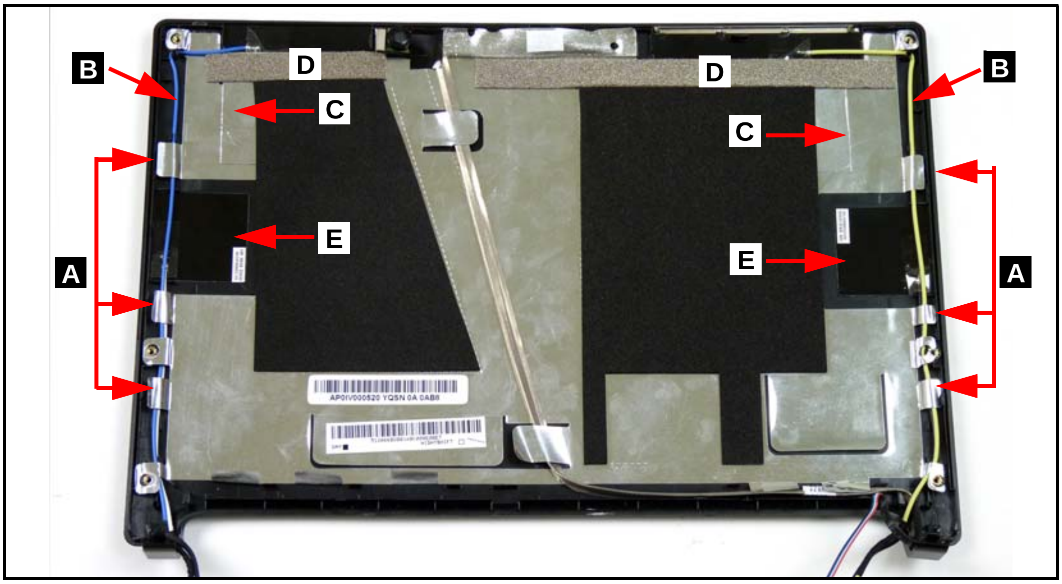


Figure 3-47. LCD Module Cover without Panel

2. Remove left 3G and WLAN antennas (B) from cable guides.
3. Remove EMI (Electromagnetic interference) foam (D) and left 3G mylar and aluminium foil (C) from LCD module cover.
4. Remove left WLAN antenna mylar (E) from LCD module cover.
5. Repeat steps 1 to 4 for right 3G and WLAN antennas (B).

WLAN and 3G Antenna Installation

1. Install left WLAN antenna mylar (E) to LCD module cover. (Figure 3-47)
2. Install and secure left 3G mylar and aluminium foil (C) and EMI (Electromagnetic interference) foam (D) to LCD module cover.
3. Install left 3G and WLAN antenna cables (B) in cable guides.
4. Secure foil tabs (A) covering left 3G and WLAN antennas (B) to LCD module cover.
5. Repeat steps 1 to 4 for right 3G and WLAN antennas (B).
6. Install LCD panel.

Microphone Module Removal

Prerequisite:

LCD Panel Removal

1. Locate module (A) on LCD module cover. (Figure 3-48)
2. Lift foil tabs (C) covering module cable (B).

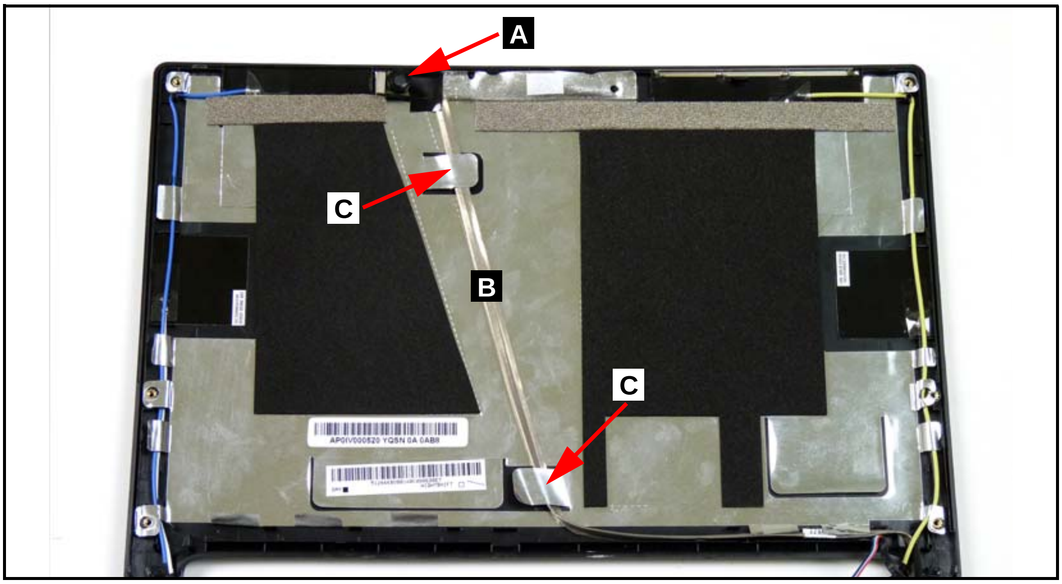


Figure 3-48. LCD Module Cover with Microphone Module

3. Remove module (A) and cable (B) from LCD module cover.

Microphone Module Installation

1. Install module (A) and module cable (B) on LCD module cover. (Figure 3-48)
2. Secure foil tabs (C) covering module cable (B) to LCD module cover.
3. Install LCD panel.

CHAPTER 4

Troubleshooting

Troubleshooting

Introduction

This chapter contains information about troubleshooting common notebook problems.

General Information

The following procedures are a guide for troubleshooting computer problems. The step by step procedures are designed to be performed as described.

NOTE:

The diagnostic tests are intended for Acer products only. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

NOTE:

Do not replace a non-defective FRU.

1. Obtain as much detailed information as possible about the problem.
2. If possible, verify the symptoms by re-creating the failure through diagnostic tests or repeating the operation that led to the problem.
3. Use Table 4-1 with the verified symptom to determine the solution.

Table 4-1. Common problems

Symptoms (Verified)
Power On Issues
No Display Issues
LCD Failure
Internal Speaker Failure
Touchpad Failure
Internal Speaker Failure
Microphone Failure
USB Failure
Wireless Function Failure
3G Function Failure
Cosmetic Failure
Thermal Unit Failure
Other Functions Failure
Intermittent Problems
Undetermined Problems

4. If the Issue is still not resolved, refer to *Online Support Information*.

Power On Issues

If the system does not power on, perform the following:

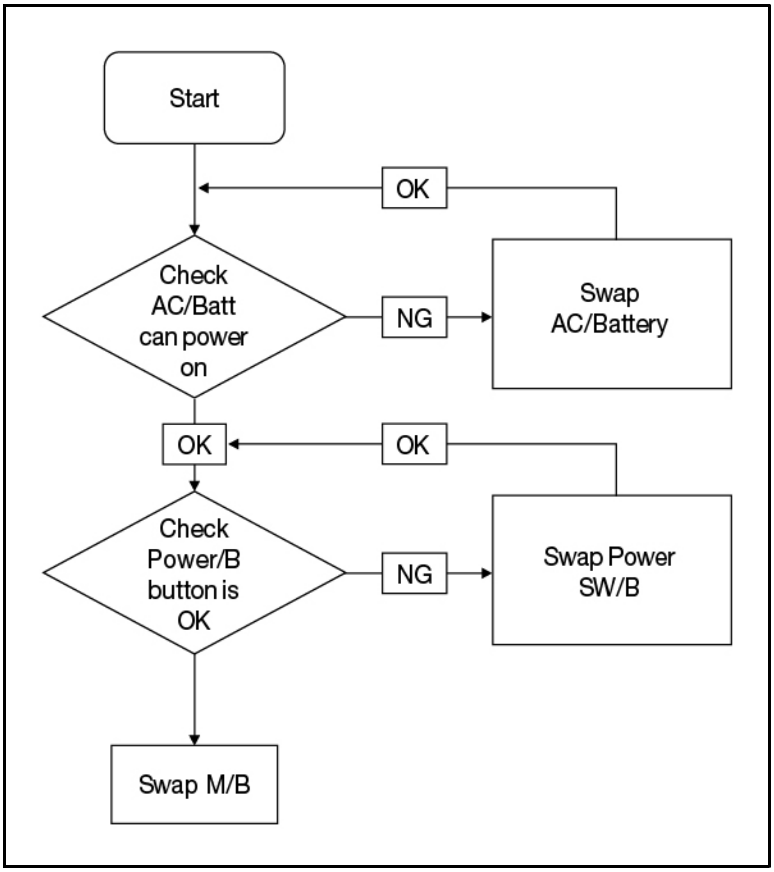


Figure 4-1. Power On Issue

Computer Shuts Down Intermittently

If the system powers off at intervals, perform the following.

1. Makes sure the power cable is properly connected to the computer and the electrical outlet.
2. Remove all extension cables between the computer and the outlet.
3. Remove all surge protectors between the computer and the electrical outlet. Plug the computer directly into a known serviceable electrical outlet.
4. Disconnect the power and open the casing to check the Thermal Unit (refer to *Thermal Unit Failure*) and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, see *Online Support Information*.

No Display Issues

If the Display does not work, perform the following:

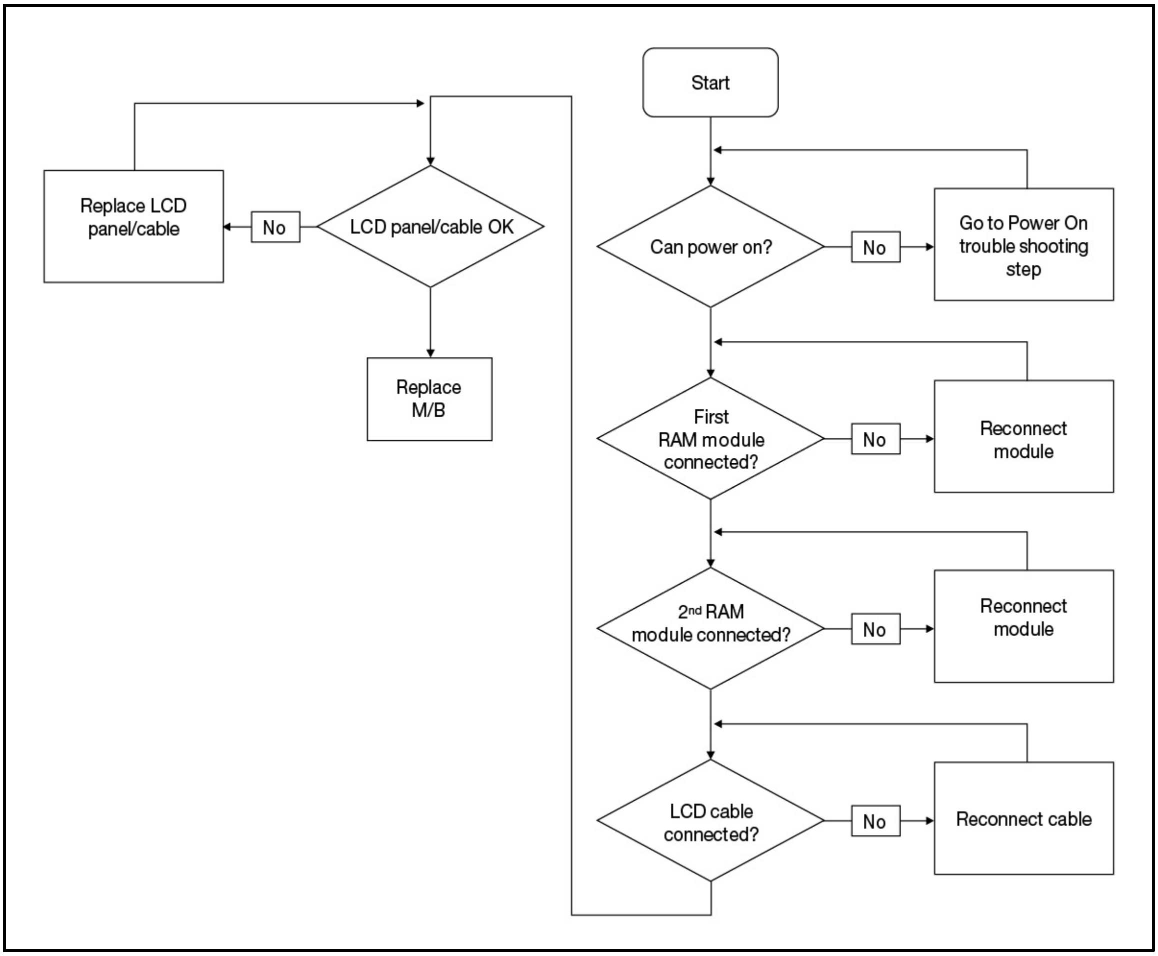


Figure 4-2. No Display Issue

No POST or Video

If the POST or video does not appear, perform the following:

1. Make sure that internal display is selected. Switching between internal and external by pressing ***Fn+F5***. Reference Product pages for specific model procedures.
2. Make sure the computer has power by checking for one of the following:
   - Fans start up
   - Status LEDs illuminate

If no power, refer to *Power On Issues*.

3. Drain stored power by removing the power cable and battery. Hold the power button for 10 seconds.
4. Connect the power and reboot the computer.

5. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing ***Fn+F5***.
6. If the POST or video appears on the external display only, refer to *LCD Failure*.
7. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs.
8. Start the computer. If the computer boots correctly, add the devices one by one until the failure point is discovered.
9. Reseat the memory modules.
10. Remove the drives. (refer to *Maintenance Flowchart*)
11. If the Issue is still not resolved, refer to *Online Support Information*.

Abnormal Video

If the video appears abnormal, perform the following:

1. Boot the computer.
   - If permanent vertical/horizontal lines or dark spots appear in the same location, the LCD is faulty and should be replaced. (refer to *Maintenance Flowchart*)
   - If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. (refer to *Maintenance Flowchart*)

NOTE:

Make sure that the computer is not running on battery alone as this may reduce display brightness.

2. Adjust the brightness to its highest level. Refer to the User Manual for instructions on adjusting the settings. If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. (refer to *Maintenance Flowchart*)
3. Check the display resolution is correctly configured:
   - Minimize or close all Windows.
   - If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   - If desktop display resolution is not normal, right-click on the desktop and select `Personalize Display Settings`.
   - Click and drag the Resolution slider to the desired resolution.
   - Click ***Apply*** and check the display. Readjust if necessary.
4. Roll back the video driver to the previous version if updated.
5. Remove and reinstall the video driver.
6. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks
   - There are no device conflicts
   - No hardware is listed under `Other Devices`
7. If the Issue is still not resolved, refer to *Online Support Information*.
8. Run the *Windows Memory Diagnostic* from the operating system DVD and follow the on-screen prompts.
9. If the Issue is still not resolved, refer to *Online Support Information*.

LCD Failure

If the LCD fails, perform the following:

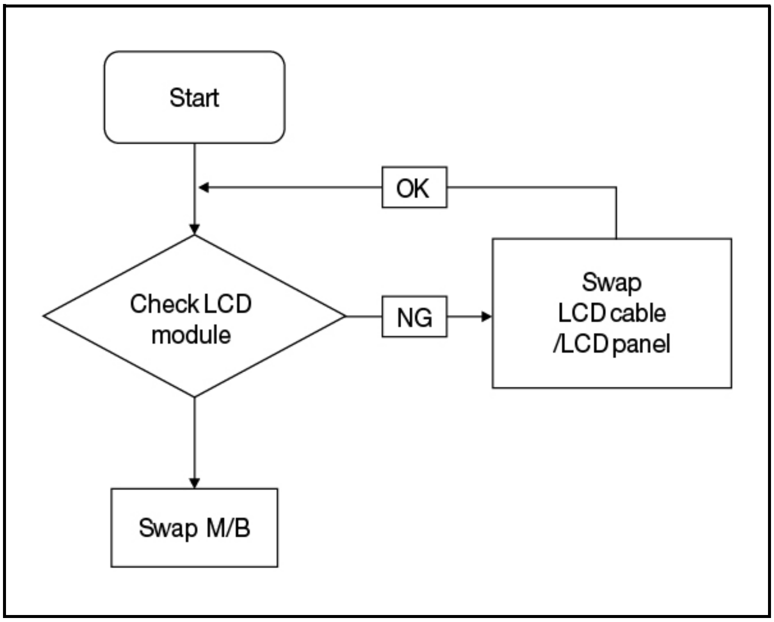


Figure 4-3. LCD Failure

Keyboard Failure

If the Keyboard fails, perform the following:

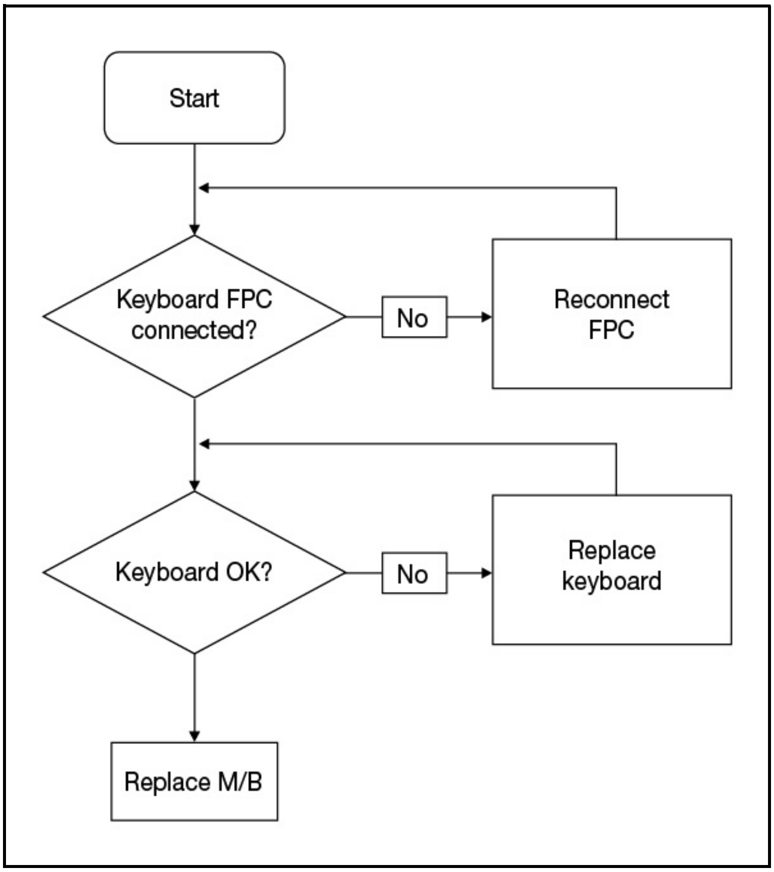


Figure 4-4. Keyboard Failure

Touchpad Failure

If the Touchpad fails, perform the following:

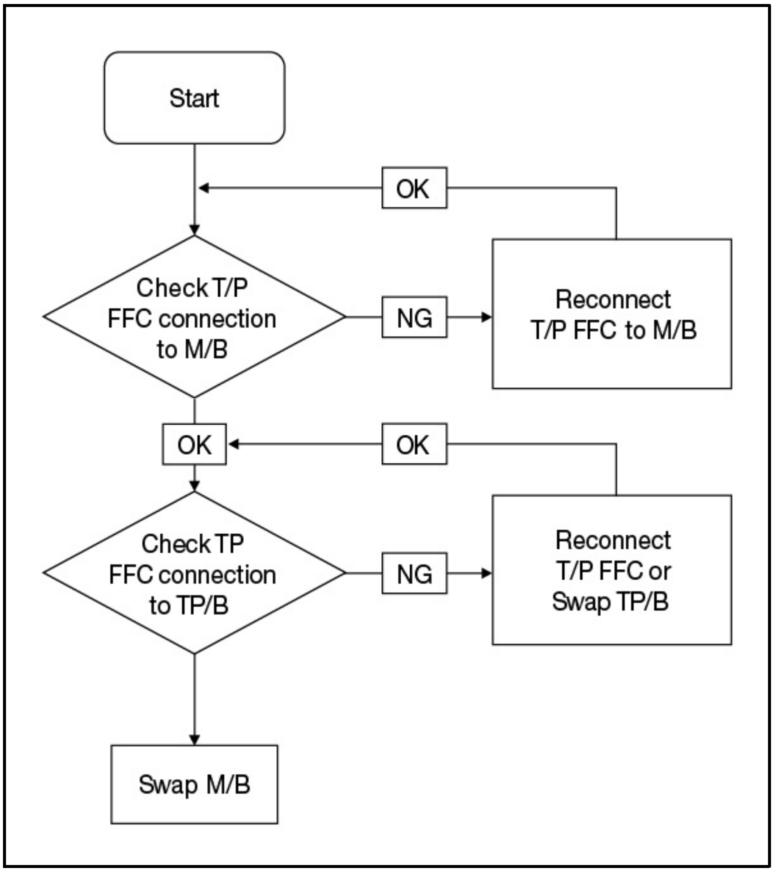


Figure 4-5. Touchpad Failure

Internal Speaker Failure

If internal Speakers fail, perform the following:

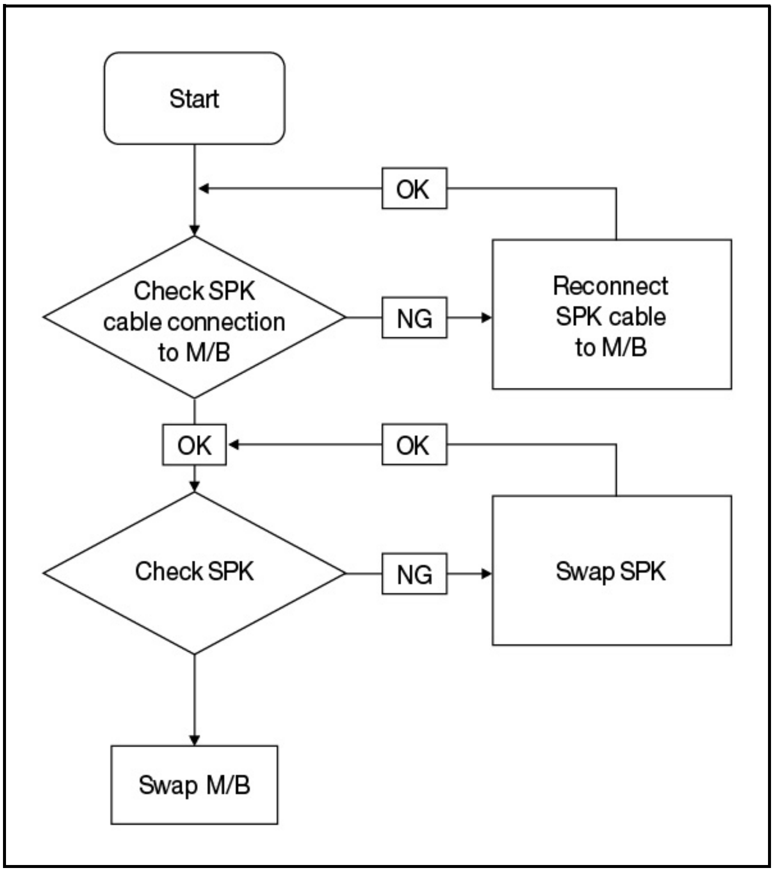


Figure 4-6. Internal Speaker Failure

Sound Problems

Perform the following:

1. Boot the computer.
2. Navigate to ***Start*** → ***Control Panel*** → ***System and Maintenance*** → ***System*** → ***Device Manager***. Check the Device Manager to determine that:
   - The device is properly installed
   - There are no red Xs or yellow exclamation marks
   - There are no device conflicts
   - No hardware is listed under Other Devices
3. If updated recently, roll back the audio driver to the previous version.
4. Remove and reinstall the audio driver.
5. Make sure that all volume controls are set mid range:
   - Click the volume icon on the taskbar

- Drag the slider to 50. Confirm that the volume is not muted.
- Click Mixer to verify that other audio applications are set to 50 and not muted.

6. Navigate to ***Start*** → ***Control Panel*** → ***Hardware and Sound*** → ***Sound***. Confirm that Speakers are selected as the default audio device (green check mark).

NOTE:

If Speakers does not show, right-click on the `Playback` tab and select **`Show Disabled Devices`** (clear by default).

7. Select Speakers and click ***Configure*** to start `Speaker Setup`. Follow the on-screen prompts to configure the speakers.
8. Remove any recently installed hardware or software.
9. Restore system and file settings from a known good date using `System Restore`.
10. If the issue is remains, repeat step 9, selecting an earlier time and date.
11. Reinstall the Operating System.
12. If the Issue is still not resolved, refer to *Online Support Information*.

Microphone Failure

If internal or external Microphones fail, perform the following:

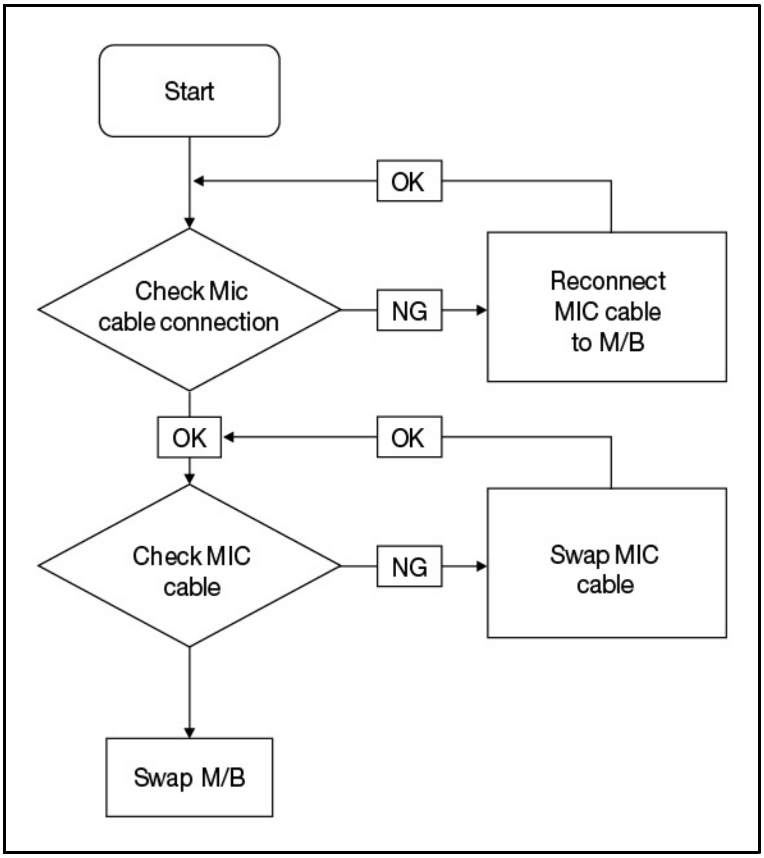


Figure 4-7. Microphone Failure

1. Check that the microphone is enabled. Navigate to ***Start*** → ***Control Panel*** → ***Hardware and Sound*** → ***Sound*** and select the `Recording` tab.
2. Right click on the `Recording` tab and select `Show Disabled Devices` (clear by default). The microphone appears on the `Recording` tab.
3. Right click on the microphone and select ***Enable***.
4. Select the microphone then click ***Properties***. Select the ***Levels*** tab.
5. Increase the volume to the maximum setting and click ***OK***.
6. Test the microphone hardware:
   - Select the microphone and click ***Configure***.
   - Select ***Set up microphone***.
   - Select the microphone type from the list and click ***Next***.
   - Follow the on-screen prompts to complete the test.
7. If the Issue is still not resolved, refer to *Online Support Information*.

USB Failure

If the USB fails, perform the following:

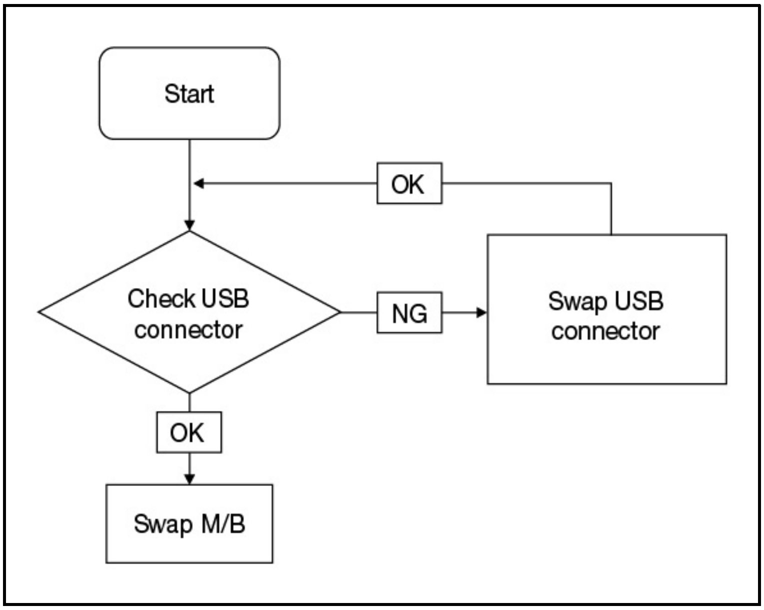


Figure 4-8. USB Failure

Wireless Function Failure

If the WLAN fails, perform the following:

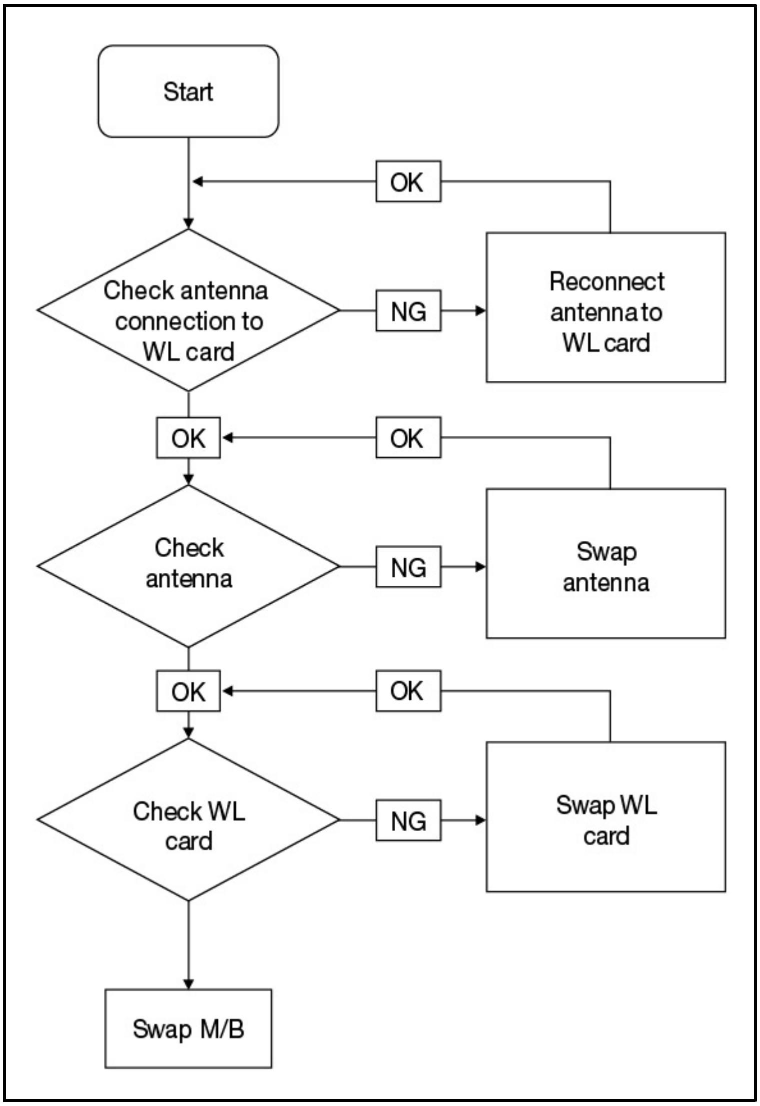


Figure 4-9. Wireless Function Failure

3G Function Failure

If there is a 3G function failure, perform the following:

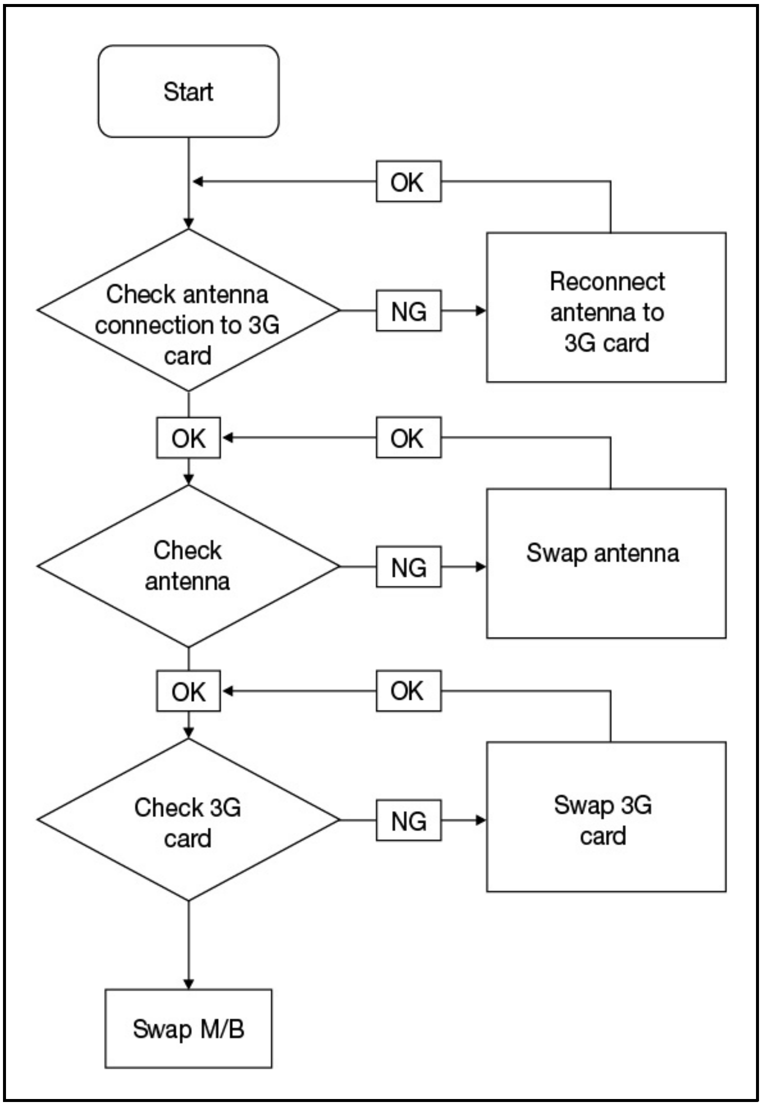


Figure 4-10. 3G Function Failure

Cosmetic Failure

If there is cosmetic damage to the outer cover or bezel, perform the following:

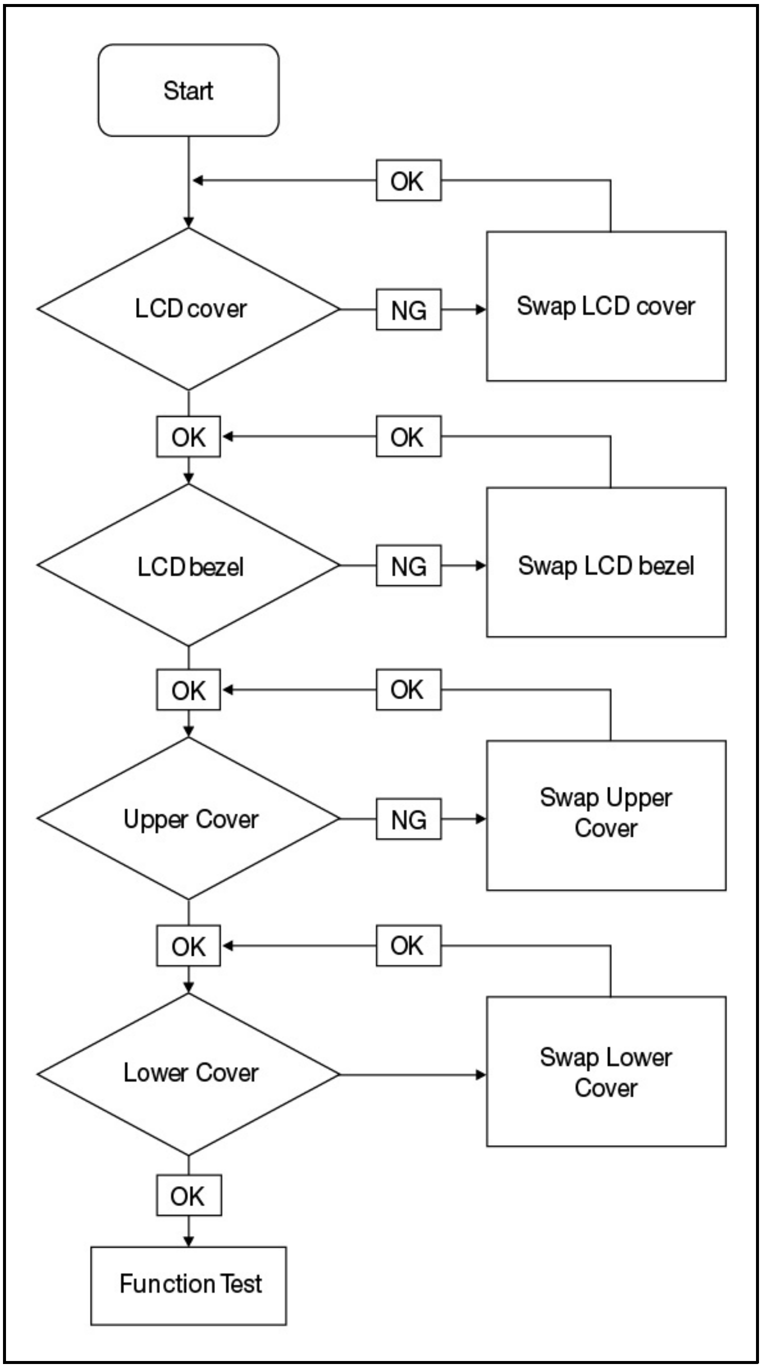


Figure 4-11. Cosmetic Failure

Thermal Unit Failure

If the Thermal Unit fails, perform the following:

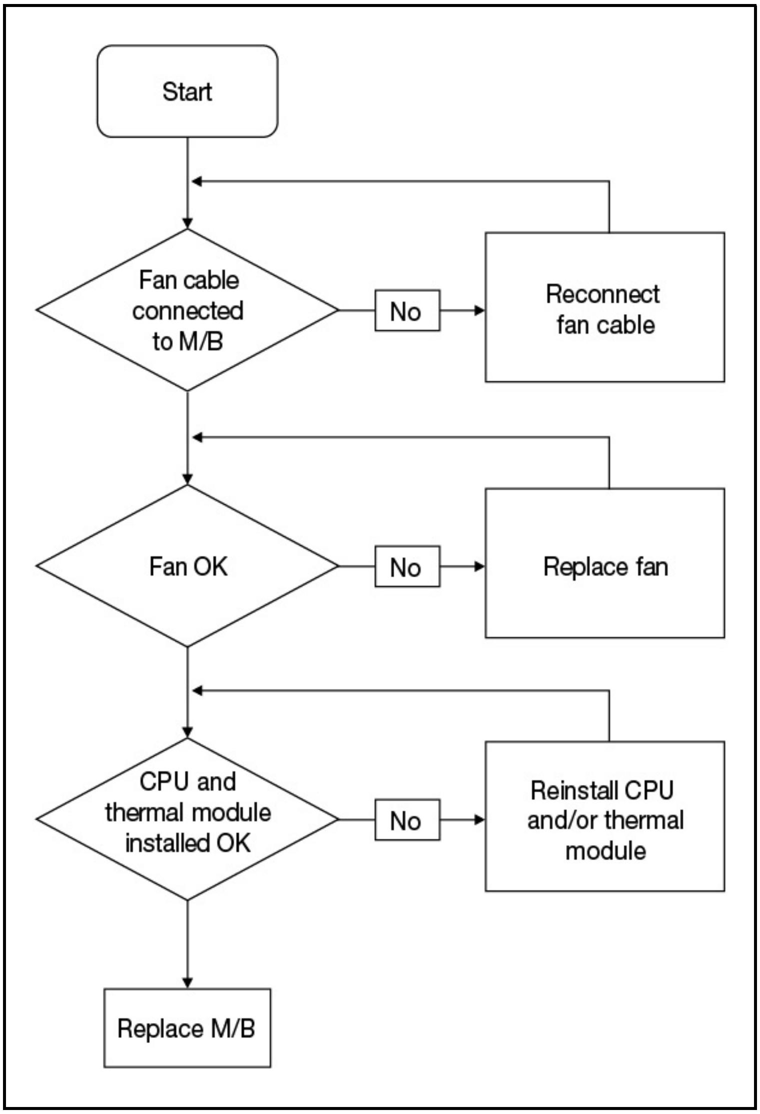


Figure 4-12. Thermal Failure

Other Functions Failure

HDD Not Operating Correctly

If the **HDD** fails to operate correctly, perform the following:

1. Disconnect all external devices.
2. Run a complete virus scan using up-to-date software to confirm the computer is virus free.
3. Run the *Windows Vista Startup Repair Utility*:
    a. Insert the Windows Vista Operating System DVD in the ODD and restart the computer.
    b. When prompted, press any key to start to the operating system DVD.
    c. When the `Install Windows` screen appears, click ***Next***.
    d. Select ***Repair your computer***.
    e. When the **`System Recovery Options`** screen appears, click ***Next***.
    f. Select the appropriate operating system, and click ***Next***.

NOTE:
Click ***Load Drivers*** if controller drives are required.

    g. Select ***Startup Repair***.

NOTE:
Startup Repair attempts to locate and resolve issues with the computer.

    h. When complete, click ***Finish***.

If an issue is discovered, follow the on-screen information to resolve the problem.

1. Run the *Windows Memory Diagnostic Tool*. For more information see *Windows Help and Support*.
2. Restart the computer and press F2 to enter the BIOS Utility. Check the BIOS settings are correct and that CD/DVD drive is set as the first boot device on the Boot menu.
3. Confirm all cables and jumpers on the HDD and ODD are set correctly.
4. Remove any recently added hardware and associated software.
5. Run the *Windows Disk Defragmenter*. For more information see *Windows Help and Support*.
6. Run *Windows Check Disk* by entering **chkdsk /r** from a command prompt. For more information see *Windows Help and Support*.
7. Restore system and file settings from a known good date using **System Restore**.
8. If the issue is not fixed, repeat the preceding steps and select an earlier time and date.
9. Replace the HDD. (refer to *Maintenance Flowchart*)

Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, perform the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If an error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems does not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

NOTE:
Verify that all attached devices are supported by the computer.

NOTE:
Verify that the power supply being used at the time of the failure is operating correctly. (refer to *Power On Issues*).

Perform the following procedures to isolate the failing FRU:

1. Remove power from the computer.
2. Visually check FRUs for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
    - Non-Acer devices
    - Printer, mouse, and other external devices
    - Battery pack
    - Hard disk drive
    - DIMM
    - CD-ROM/Diskette drive Module
    - PC Cards
4. Apply power to the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, connect the removed devices until failing FRU is found.
7. If the problem remains, replace the following:
    - System board
    - LCD assembly

Post Codes

The following tables describe the POST codes and descriptions during the POST.

Table 4-1. POST Code Range

Phase	POST Code Range
SEC	0x01 - 0x0F
PEI	0x70 - 0x9F
DXE	0x40 - 0x6F
BDS	0x10 - 0x3F
SMM	0xA0 - 0xBF
S3	0xC0 - 0xCF
ASL	0x51 – 0x55 0xE1 – 0xE4
PostBDS	0xF9 – 0xFE
InsydeH2ODDT™ Reserve	0xD0 – 0xD7
OEM Reserve	0xE8 – 0xEB
Reserved	0xD8 – 0xE0 0xE5 – 0xE7 0xEC – 0xF8

Table 4-2. SEC Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SEC_SYSTEM_POWER_ON	SEC	01	CPU power on and switch to Protected mode
SEC_BEFORE_MICROCODE_PATCH	SEC	02	Patching CPU microcode
SEC_AFTER_MICROCODE_PATCH	SEC	03	Setup Cache as RAM
SEC_ACCESS_CSR*	SEC	04	PCIE MMIO Base Address initial
SEC_GENERIC_MSRINIT*	SEC	05	CPU Generic MSR initialization
SEC_CPU_SPEEDCFG*	SEC	06	Setup CPU speed
SEC_SETUP_CAR_OK	SEC	07	Cache as RAM test
SEC_FORCE_MAX_RATIO*	SEC	08	Tune CPU frequency ratio to maximum level
SEC_GO_TO_SECSTARTUP	SEC	09	Setup BIOS ROM cache
SEC_GO_TO_PEICORE	SEC	0A	Enter Boot Firmware Volume

Table 4-2. SEC Phase POST Code Table (Continued)

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
* 3rd party relate functions – Platform dependence.			

Table 4-3. PEI Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_SIO_INIT	PEI	70	Super I/O Initialization
PEI_CPU_REG_INIT	PEI	71	CPU Early Initialization
PEI_CPU_AP_INIT*	PEI	72	Multi-processor Early Initial
PEI_CPU_HT_RESET*	PEI	73	HyperTransport Initialization
PEI_PCIE_MMIO_INIT	PEI	74	PCIE MMIO BAR Initialization
PEI_NB_REG_INIT	PEI	75	North Bridge Early Initialization
PEI_SB_REG_INIT	PEI	76	South Bridge Early Initialization
PEI_PCIE_TRAINING*	PEI	77	PCIE Training
PEI_TPM_INIT	PEI	78	TPM Initialization
PEI_SMBUS_INIT	PEI	79	SMBUS Early Initialization
PEI_PROGRAM_CLOCK_GEN	PEI	7A	Clock Generator Initialization
PEI_IGD_EARLY_INITIAL *	PEI	7B	Internal Graphic device early Initialization
PEI_HECI_INIT*	PEI	7C	HECI Initialization
PEI_WATCHDOG_INIT*	PEI	7D	Watchdog timer Initialization
PEI_MEMORY_INIT	PEI	7E	Memory Initial for Normal boot.
PEI_MEMORY_INIT_FOR_CRISIS	PEI	7F	Memory Initial for Crisis Recovery
PEI_MEMORY_INSTALL	PEI	80	Simple Memory test
PEI_TXTPEI*	PEI	81	TXT function early Initialization
PEI_SWITCH_STACK	PEI	82	Start to use Memory
PEI_MEMORY_CALLBACK	PEI	83	Set cache for physical memory
PEI_ENTER_RECOVERY_MODE	PEI	84	Recovery device Initialization
PEI_RECOVERY_MEDIA_FOUND	PEI	85	Found Recovery image
PEI_RECOVERY_MEDIA_NOT_FOUND	PEI	86	Recovery image not found
PEI_RECOVERY_LOAD_FILE_DONE	PEI	87	Load Recovery Image completed

Table 4-3. PEI Phase POST Code Table (Continued)

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_RECOVERY_START_FLASH	PEI	88	Start Flash BIOS with Recovery image
PEI_ENTER_DXEIPL	PEI	89	Loading BIOS image to RAM
PEI_FINDING_DXE_CORE	PEI	8A	Loading DXE core
PEI_GO_TO_DXE_CORE	PEI	8B	Enter DXE core
* 3rd party relate functions – Platform dependence.			

Table 4-4. DXE Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
DXE_TCGDXE*	DXE	40	TPM initial in DXE
DXE_SB_SPI_INIT*	DXE	41	South bridge SPI initialization
DXE_CF9_RESET*	DXE	42	Setup Reset service
DXE_SB_SERIAL_GPIO_INIT*	DXE	43	South bridge Serial GPIO initialization
DXE_SMMACCESS*	DXE	44	Setup SMM ACCE SS service
DXE_SIO_INIT*	DXE	46	Super I/O DXE initialization
DXE_LEGACY_REGION*	DXE	47	Setup Legacy Region service
DXE_SB_INIT*	DXE	48	South Bridge Middle initialization
DXE_IDENTIFY_FLASH_DEVICE*	DXE	49	Identify Flash device
DXE_FTW_INIT	DXE	4A	Fault Tolerant Write verification
DXE_VARIABLE_INIT	DXE	4B	Variable Service initialization
DXE_VARIABLE_INIT_FAIL	DXE	4C	Fail to initial Variable Service
DXE_MTC_INIT	DXE	4D	MTC Initial
DXE_CPU_INIT	DXE	4E	CPU Middle Initialization
DXE_MP_CPU_INIT	DXE	4F	Multi-processor Middle Initialization
DXE_SMBUS_INIT	DXE	50	SMBUS Driver Initialization
DXE_SMART_TIMER_INIT	DXE	51	8259 Initialization
DXE_PCRTC_INIT	DXE	52	RTC Initialization
DXE_SATA_INIT*	DXE	53	SATA Controller early Initialization
DXE_SMM_CONTROLER_INIT*	DXE	54	Setup SMM Control service
DXE_LEGACY_INTERRUPT*	DXE	55	Setup Legacy Interrupt service
DXE_RELOCATE_SMBASE	DXE	56	Relocate SMM BASE

Table 4-4. DXE Phase POST Code Table (Continued)

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
DXE_FIRST_SMI	DXE	57	SMI test
DXE_VTD_INIT*	DXE	58	VTD Initial
DXE_BEFORE_CSM16_INIT	DXE	59	Legacy BIOS Initialization
DXE_AFTER_CSM16_INIT	DXE	5A	Legacy interrupt function Initialization
DXE_LOAD_ACPI_TABLE	DXE	5B	ACPI Table Initialization
DXE_SB_DISPATCH*	DXE	5C	Setup SB SMM Dispatcher service
DXE_SB_IOTRAP_INIT*	DXE	5D	Setup SB IOTRAP Service
DXE_SUBCLASS_DRIVER*	DXE	5E	Build AMT Table
DXE_PPM_INIT*	DXE	5F	PPM Initialization
DXE_HECIDRV_INIT*	DXE	60	HECIDRV Initialization
* 3rd party relate functions – Platform dependence.			

Table 4-5. BDS Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_ENTER_BDS	BDS	10	Enter BDS entry
BDS_INSTALL_HOTKEY	BDS	11	Install Hotkey service
BDS_ASF_INIT*	BDS	12	ASF Initialization
BDS_PCI_ENUMERATION_START	BDS	13	PCI enumeration
BDS_BEFORE_PCIIO_INSTALL	BDS	14	PCI resource assign complete
BDS_PCI_ENUMERATION_END	BDS	15	PCI enumeration complete
BDS_CONNECT_CONSOLE_IN	BDS	16	Keyboard Controller, Keyboard and Mouse initialization
BDS_CONNECT_CONSOLE_OUT	BDS	17	Video device initialization
BDS_CONNECT_STD_ERR	BDS	18	Error report device initialization
BDS_CONNECT_USB_HC	BDS	19	USB host controller initialization
BDS_CONNECT_USB_BUS	BDS	1A	USB BUS driver initialization
BDS_CONNECT_USB_DEVICE	BDS	1B	USB device driver initialization

Table 4-5. BDS Phase POST Code Table (Continued)

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_NO_CONSOLE_ACTION	BDS	1C	Console device initial fail
BDS_DISPLAY_LOGO_SYSTEM_INFO	BDS	1D	Display logo or system information
BDS_START_IDE_CONTROLLER	BDS	1E	IDE controller initialization
BDS_START_SATA_CONTROLLER	BDS	1F	SATA controller initialization
BDS_START_ISA_ACPI_CONTROLLER	BDS	20	SIO controller initialization
BDS_START_ISA_BUS	BDS	21	ISA BUS driver initialization
BDS_START_ISA_FDD	BDS	22	Floppy device initialization
BDS_START_ISA_SEIRAL	BDS	23	Serial device initialization
BDS_START_IDE_BUS	BDS	24	IDE device initialization
BDS_START_AHCI_BUS	BDS	25	AHCI device initialization
BDS_CONNECT_LEGACY_ROM	BDS	26	Dispatch option ROMs
BDS_ENUMERATE_ALL_BOOT_OPTION	BDS	27	Get boot device information
BDS_END_OF_BOOT_SELECTION	BDS	28	End of boot selection
BDS_ENTER_SETUP	BDS	29	Enter Setup Menu
BDS_ENTER_BOOT_MANAGER	BDS	2A	Enter Boot manager
BDS_BOOT_DEVICE_SELECT	BDS	2B	Try to boot system to OS
BDS_EFI64_SHADOW_ALL_LEGACY_ROM	BDS	2C	Shadow Misc Option ROM
BDS_ACPI_S3SAVE	BDS	2D	Save S3 resume required data in RAM
BDS_READY_TO_BOOT_EVENT	BDS	2E	Last Chipset initial before boot to OS
BDS_GO_LEGACY_BOOT	BDS	2F	Start to boot Legacy OS
BDS_GO_UEFI_BOOT	BDS	30	Start to boot UEFI OS
BDS_LEGACY16_PREPARE_TO_BOOT	BDS	31	Prepare to Boot to Legacy OS
BDS_EXIT_BOOT_SERVICES*	BDS	32	Send END of POST Message to ME via HECI
BDS_LEGACY_BOOT_EVENT	BDS	33	Last Chipset initial before boot to Legacy OS.
BDS_ENTER_LEGACY_16_BOOT	BDS	34	Ready to Boot Legacy OS.
BDS_RECOVERY_START_FLASH	BDS	35	Fast Recovery Start Flash.
* 3rd party relate functions – Platform dependence.			

Table 4-6. S3 Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
S3_RESTORE_MEMORY_CONTROLLER	PEI	C0	Memory initial for S3 resume
S3_INSTALL_S3_MEMORY	PEI	C1	Get S3 resume required data from memory
S3_SWITCH_STACK	PEI	C2	Start to use memory during S3 resume
S3_MEMORY_CALLBACK	PEI	C3	Set cache for physical memory during S3 resume
S3_ENTER_S3_RESUME_PEIM	PEI	C4	Start to restore system configuration
S3_BEFORE_ACPI_BOOT_SCRIPT	PEI	C5	Restore system configuration stage1
S3_BEFORE_RUNTIME_BOOT_SCRIPT	PEI	C6	Restore system configuration stage2
S3_BEFORE_RELOCATE_SMM_BASE	PEI	C7	Relocate SMM BASE during S3 resume
S3_BEFORE_MP_INIT	PEI	C8	Multi-processor initial during S3 resume
S3_BEFORE_RESTORE_ACPI_CALLBACK	PEI	C9	Start to restore system configuration in SMM
S3_AFTER_RESTORE_ACPI_CALLBACK	PEI	CA	Restore system configuration in SMM complete
S3_GO_TO_FACS_WAKING_VECTOR	PEI	CB	Back to OS

Table 4-7. ACPI Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
ASL_ENTER_S1	ASL	51	Prepare to enter S1
ASL_ENTER_S3	ASL	53	Prepare to enter S3
ASL_ENTER_S4	ASL	54	Prepare to enter S4
ASL_ENTER_S5	ASL	55	Prepare to enter S5
ASL_WAKEUP_S1	ASL	E1	System wake up from S1
ASL_WAKEUP_S3	ASL	E3	System wake up from S3
ASL_WAKEUP_S4	ASL	E4	System wake up from S4

Table 4-8. SMM Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SMM_IDENTIFY_FLASH_DEVICE	SMM	0xA0	Identify Flash device in SMM
SMM_SMM_PLATFORM_INIT	SMM	0xA2	SMM service initial
SMM_ACPI_ENABLE_START	SMM	0xA6	OS call ACPI enable function
SMM_ACPI_ENABLE_END	SMM	0xA7	ACPI enable function complete
SMM_S1_SLEEP_CALLBACK	SMM	0xA1	Enter S1
SMM_S3_SLEEP_CALLBACK	SMM	0xA3	Enter S3
SMM_S4_SLEEP_CALLBACK	SMM	0xA4	Enter S4
SMM_S5_SLEEP_CALLBACK	SMM	0xA5	Enter S5
SMM_ACPI_DISABLE_START	SMM	0xA8	OS call ACPI disable function
SMM_ACPI_DISABLE_END	SMM	0xA9	ACPI disable function complete

Table 4-9. InsydeH2ODDT Debugger POST Code Table

Functionality Name (Include\ PostCode.h)	PostCode	Description
Used by Insyde debugger	0x0D	Waiting for device connect
Used by Insyde debugger	0xD0	Waiting for device connect
Used by Insyde debugger	0xD1	InsydeH2ODDT Ready
Used by Insyde debugger	0xD2	EHCI not found
Used by Insyde debugger	0xD3	Debug port connect low speed device
Used by Insyde debugger	0xD4	DDT Cable become low speed device
Used by Insyde debugger	0xD5	DDT Cable Transmission Error (Get descriptor fail)
Used by Insyde debugger	0xD6	DDT Cable Transmission Error (Set Debug mode fail)
Used by Insyde debugger	0xD7	DDT Cable Transmission Error (Set address fail)

CHAPTER 5

Jumper and Connector Locations

Jumper and Connector Locations

Mainboard

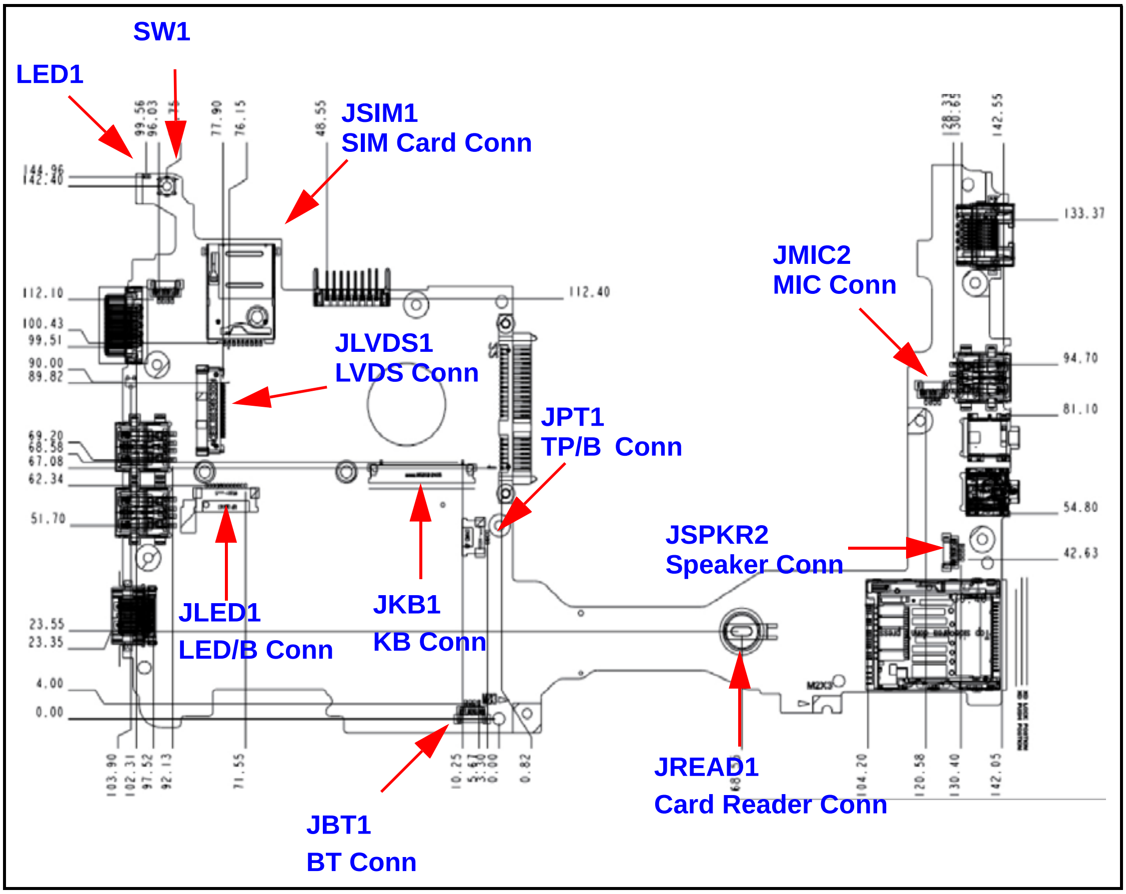


Figure 5-1. Mainboard Top

Table 5-1. Mainboard Top

Item	Description	Item	Description
LED1	LED1 Connector	JTP1	TP/B Connector
JLED1	LED/B Connector	JKB1	KB Connector
JBT1	BT Connector	JLVDS1	LVDS Connector
JREAD1	Card Reader Connector	JSIM1	SIM Card Connector
JSPK2	Speaker Connector	SW1	

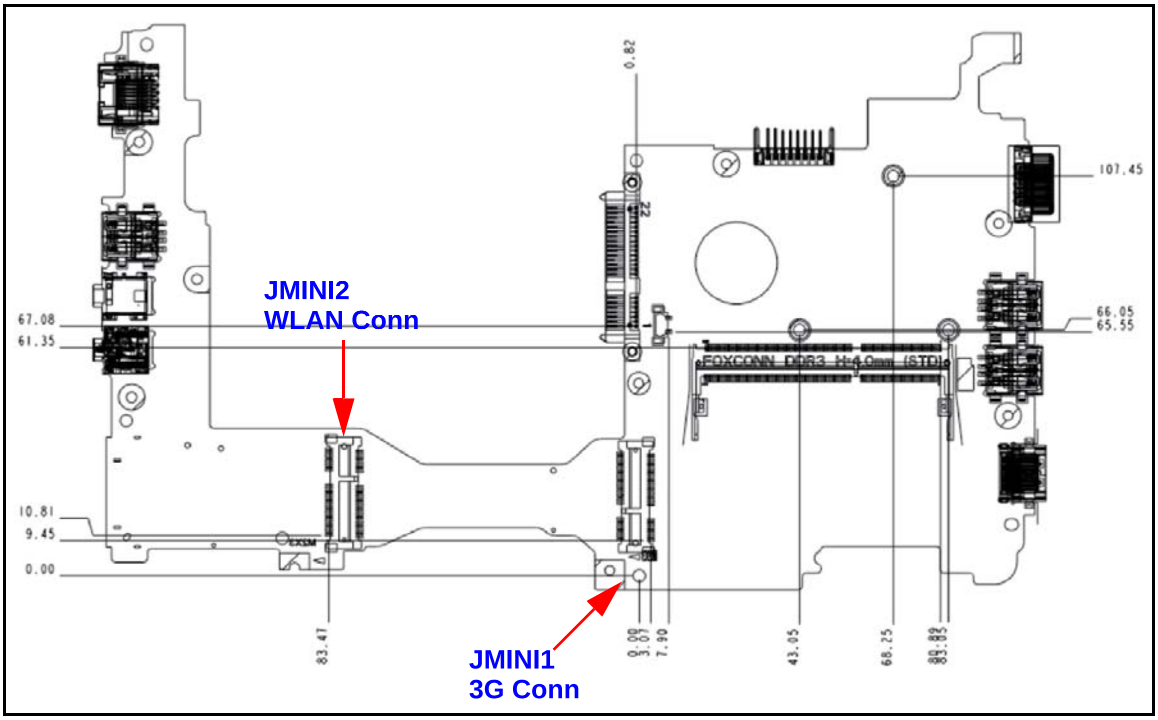


Figure 5-2. Mainboard Bottom

Table 5-2. Mainboard Bottom

Item	Description	Item	Description
JMINI1	3G Connector	JMINI2	WLAN Connector

Clearing Password Check and BIOS Recovery

This section provides users with the SOP (standard operating procedure) for clearing the BIOS password check and recovering the BIOS for the Aspire One 522.

Clearing Password Check

NOTE:

The following procedure is only for clearing BIOS Password (Supervisor Password and User Password).

Steps for Clearing BIOS Password Check

If a BIOS password (Supervisor Password and/or User Password) is set, the BIOS will prompt for the password at system POST or upon entering the BIOS setup menu. Clear the password check with the following procedure:

1. Remove AC adapter.
2. Locate the RTC_RST point (A). (Figure 5-3)

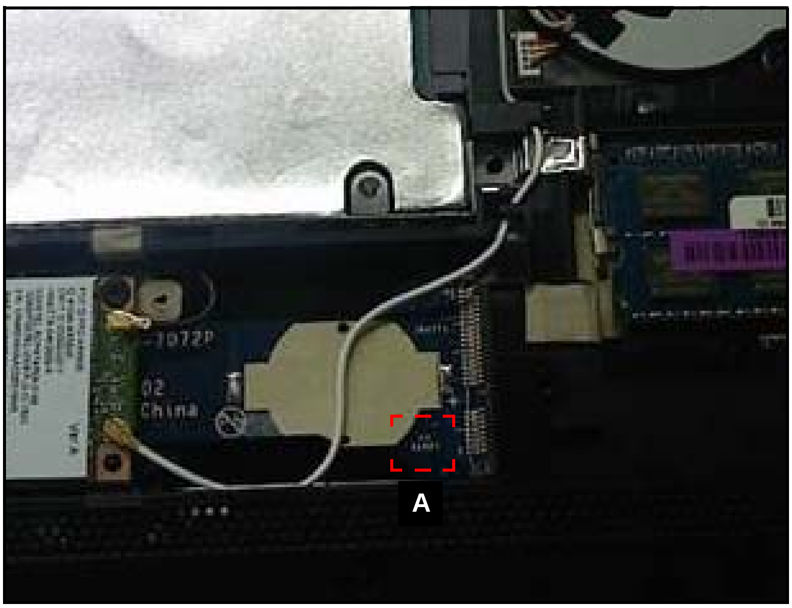


Figure 5-3. CMOS Jumper Overview

3. Short two points of jumpers (A). (Figure 5-4)

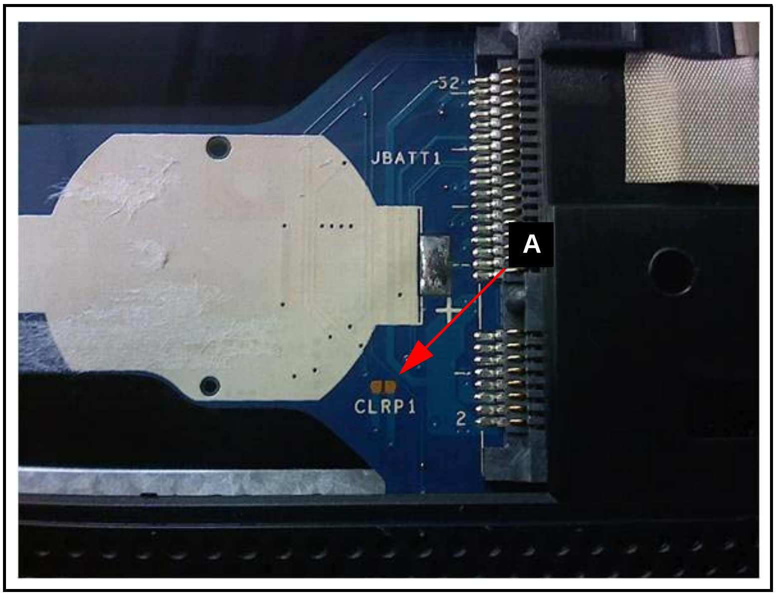


Figure 5-4. CMOS Jumper

Table 5-3. CMOS Jumper

Item	Description
CLRP1	Clear CMOS Jumper

4. Plug in AC adapter.
5. Press ***Power*** button until BIOS POST is finished
6. Remove conductivity tool from RCT_RST point.
7. Restart the system and press ***F2*** to enter *BIOS Utility Setup* menu.
8. If no password prompt is shown, BIOS password is cleared.
9. If password prompt is shown, repeat steps 1 through 9.

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block

The BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware if a previous BIOS flashing process has failed.

BIOS Recovery Hotkey

To enable the BIOS Recovery process, use the function hotkey, **<Fn+Esc>**, during BIOS POST. The AC adapter and battery are required to be installed during this process.

Steps for BIOS Recovery Using USB HDD

NOTE:

Prior to performing the recovery, prepare a Crisis USB key. The Crisis USB key is created by executing the Crisis Disk program in another system with Windows® 7 OS.

To Create a Crisis USB key, perform the following:

1. Format USB HDD using the *Quick Format* option. (Figure 5-5)

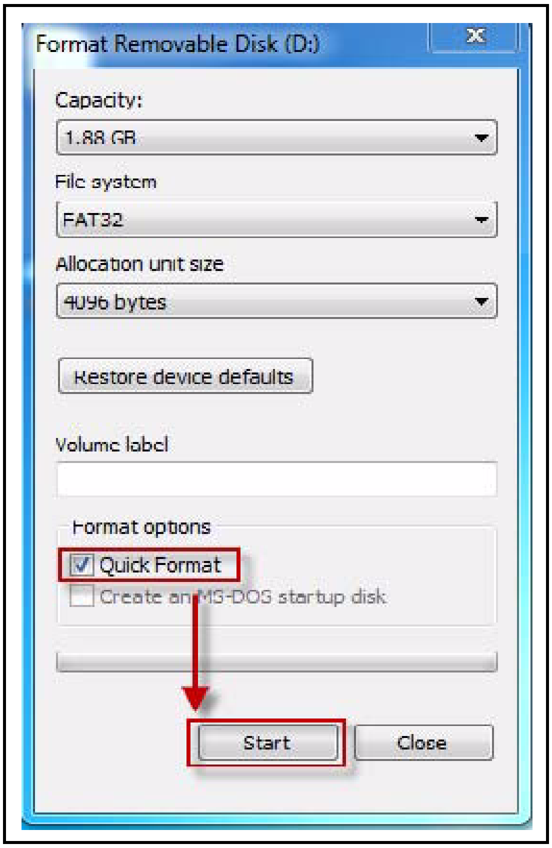


Figure 5-5. Format HDD

2. Copy ROM (read-only memory) file, *bios.fd***,** to root directory of USB HDD. Make sure that there is no other BIOS file is saved in the same directory.
3. Insert USB HDD into USB port.
4. Press <**Fn + ESC**> button and hold while plugging in AC power adapter.
5. The ***Power*** button flashes once.
6. Press ***Power*** button to initiate system CRISIS mode.
7. When CRISIS is complete, the system auto restarts with a workable BIOS.
8. Update the latest BIOS version for this machine by the regular BIOS flashing process.

CHAPTER 6

Field Replaceable Unit List

FRU (Field Replaceable Unit) List

This chapter provides users with a FRU (Field Replaceable Unit) listing in global configurations for the Aspire One 522. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE:

WHEN ORDERING FRU PARTS, check the most up-to-date information available on the regional web or channel. Part number changes will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, the Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. Users MUST use the local FRU list provided by the regional Acer office to order FRU parts for repair and service of customer machines.

NOTE:

To scrap or to return the defective parts, users should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by the regional Acer office on how to return it.

Exploded Diagrams

Main Assembly

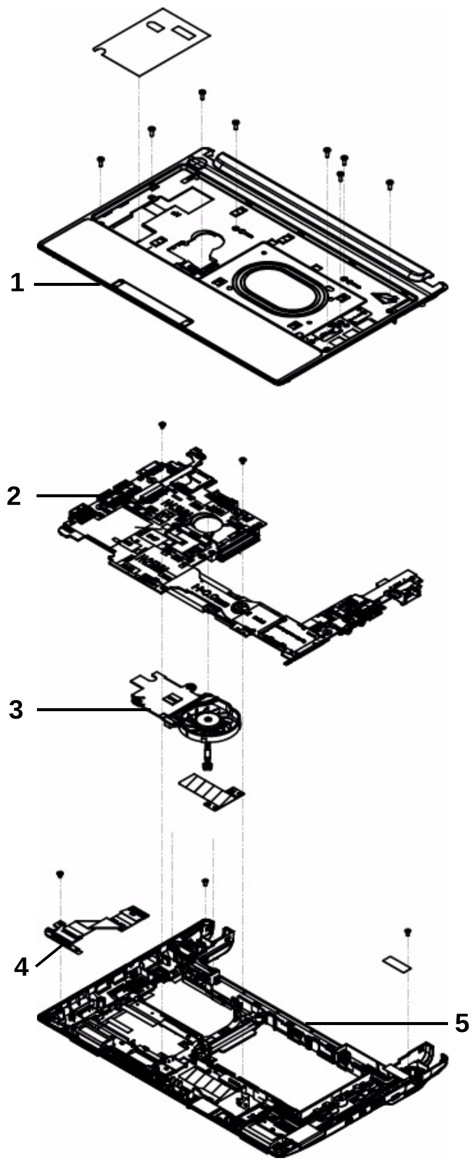


Figure 6-1. Main Assembly Exploded Diagram

Table 6-1. Main Assembly Exploded Diagram

No.	Description	Acer Part No.
1	UPPER CASE-BLACK	60.SES02.001

Table 6-1. Main Assembly Exploded Diagram (Continued)

No.	Description	Acer Part No.
2	Mainboard Aspire One 522 LF CPU C50, with 3G	MB.SES02.002
3	THERMAL MODULE W/FAN	60.SES02.008
4	LED BOARD MOUNT W/ FFC CABLE	55.SES02.002
5	LOWER CASE	60.SES02.002

LCD Assembly

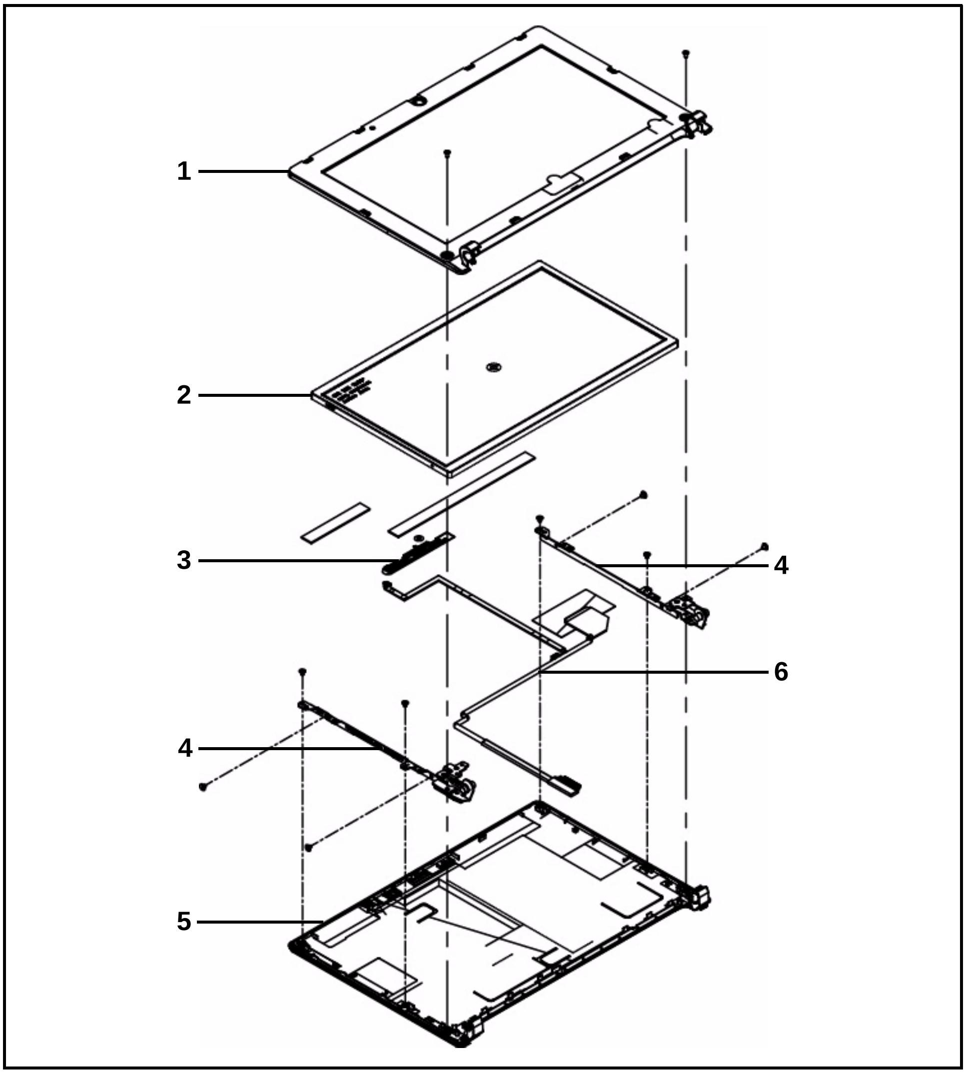


Figure 6-2. LCD Assembly Exploded Diagram

Table 6-2. LCD Assembly Exploded Diagram

No.	Description	Acer Part No.
1	LCD BEZEL-52	60.SES02.007
2	LED LCD SAMSUNG 10.1" WXGA Glare LTN101AT01-A01 LF 200nit 16ms 600:1	LK.10106.002
3	CAMERA 1.3M	57.SES02.001
4	LCD BRACKET R&L-52	33.SES02.003
5	LOWER CASE	60.SES02.002
6	LCD CABLE-52 FOR W/3G	50.SFE02.003

Upper Cover

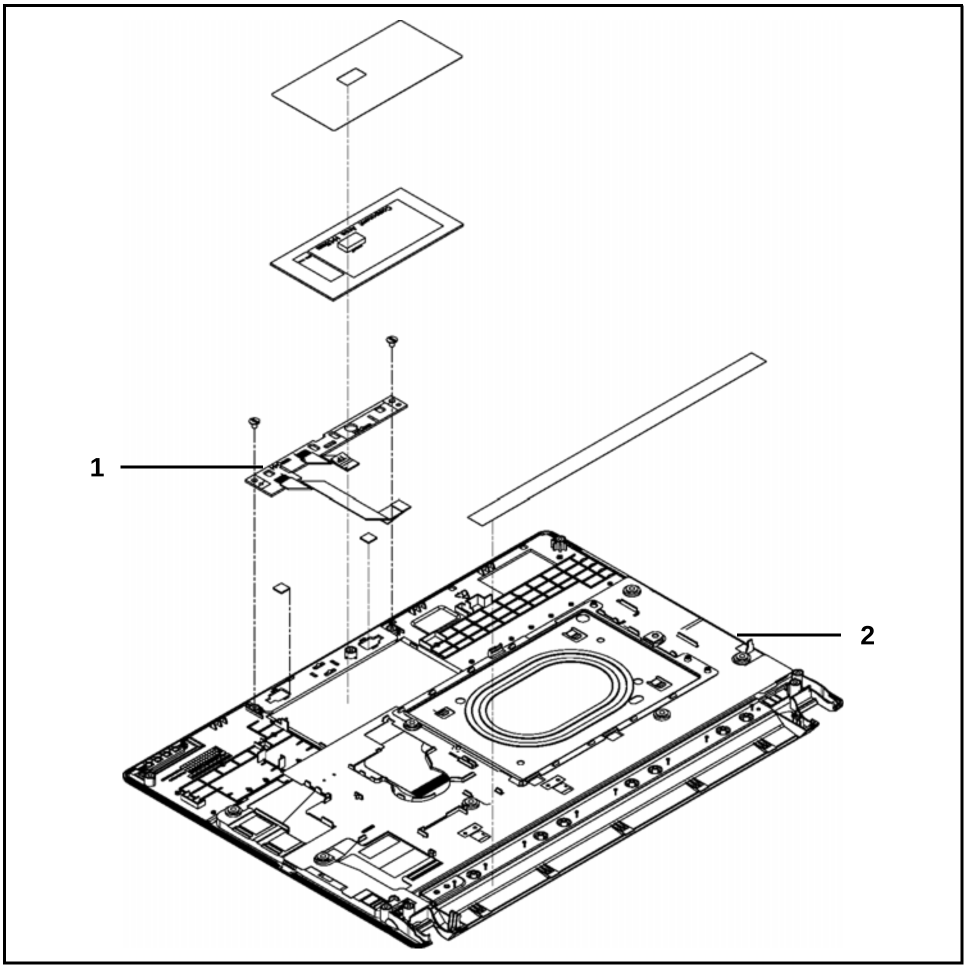


Figure 6-3. Upper Cover Exploded Diagram

Table 6-3. Upper Cover Assembly Exploded Diagram

No.	Description	Acer Part No.
1	TP BUTTON BOARD MOUNT W/ FFC CABLE	55.SES02.001
2	UPPER CASE-BLACK	60.SES02.001

Lower Cover

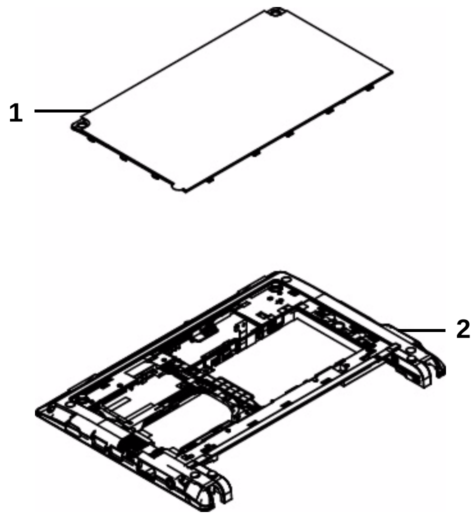


Figure 6-4. Lower Cover Exploded Diagram

Table 6-4. Lower Cover Exploded Diagram

No.	Description	Acer Part No.
1	UNILOAD DOOR	60.SES02.003
2	LOWER CASE	60.SES02.002

FRU List

Table 6-5. FRU List

Category	Description	P/N
ADAPTER		
	Adapter LEADER 40W 19V 1.7x5.5x11 Black IU40-11190-011S, wall-mounted, LV5+OBL LF	AP.04007.002
	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF	AP.04001.002
BATTERY		
	Battery SANYO AL10A Li-Ion 3S1P SANYO 3 cell 2200mAh Main COMMON ID:AL10A31	BT.00303.022
	Battery SANYO AL10B Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AL10B31	BT.00603.114
BOARD		
	FOXCONN BLUETOOTH BRM 2070 (T77H114.01) BT 3.0	BH.21100.010
	FOXCONN BLUETOOTH ATH BU12	BH.21100.011
	TP BUTTON BOARD MOUNT W/ FFC CABLE	55.SES02.001
	LED BOARD MOUNT W/ FFC CABLE	55.SES02.002
	FOXCONN WIRELSS LAN ATHEROS HB95 1X1 BGN (HM) T77H121.01	NI.23600.068
	FOXCONN WIRELSS LAN BROADCOM 4313 1X1 BGN (HM) T77H194.00	NI.23600.076
	LITEON WIRELESS LAN ATHEROS HB95 1X1 BGN (HM) WN6601AH	NI.23600.070
	Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077
	Huawei EM770W-Rev2	LC.21300.066

Table 6-5. FRU List (Continued)

Category	Description	P/N
CABLE		
	BLUE TOOTH CABLE-6PIN	50.SES02.001
	DC-IN CABLE	50.SES02.002
	AC CLIP US	27.WH202.001
	AC CLIP EU	27.WH202.002
	AC CLIP AUSTRALIA	27.WH202.003
	AC CLIP UK	27.WH202.004
	AC CLIP ARGETINA	27.WH202.005
	AC CLIP CHINA	27.WH202.006
	AC CLIP BRAZIL	27.WH202.007
	AC CLIP S-AFRICA	27.WH202.008
	AC CLIP KOREA	27.WH202.009
	AC CLIP AF	27.WH202.010
CASE/COVER/BRACKET ASSEMBLY		
	UPPER CASE-BLACK	60.SES02.001
	LOWER CASE	60.SES02.002
	UNILOAD DOOR	60.SES02.003
	HDD BRACKET-L	33.SES02.001
	HDD BRACKET-R	33.SES02.002

Table 6-5. FRU List (Continued)

Category	Description	P/N
HDD/HARD DISK DRIVE		
	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.16007.026
	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.25004.005
	HDD WD 2.5" 5400rpm 250GB WD2500BPVT-22ZEST0,ML320S-AF, 4K drive SATA 8MB LF F/W:01.01A01 4K drive	KH.25008.029
	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.32007.008
KEYBOARD		
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black US International Texture	KB.I100A.086
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Greek Texture	KB.I100A.070
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Arabic Texture	KB.I100A.061
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Chinese Texture	KB.I100A.065
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Russian Texture	KB.I100A.078
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black US International w/ Hebrew Texture	KB.I100A.087
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Thailand Texture	KB.I100A.083
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 84KS Black Korean Texture	KB.I100A.074
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black UK Texture	KB.I100A.085
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black German Texture	KB.I100A.069
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Swiss/G Texture	KB.I100A.082
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Belgium Texture	KB.I100A.062
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Danish Texture	KB.I100A.066

Table 6-5. FRU List (Continued)

Category	Description	P/N
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Italian Texture	KB.I100A.072
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black French Texture	KB.I100A.068
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Hungarian Texture	KB.I100A.071
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Norwegian Texture	KB.I100A.076
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Portuguese Texture	KB.I100A.077
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Spanish Texture	KB.I100A.080
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black US w/ Canadian French Texture	KB.I100A.088
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Turkish Texture	KB.I100A.084
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Sweden Texture	KB.I100A.081
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black FR/Arabic Texture	KB.I100A.067
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Nordic Texture	KB.I100A.075
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black SLO/CRO Texture	KB.I100A.079
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black CZ/SK Texture	KB.I100A.064
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 85KS Black Brazilian Portuguese Texture	KB.I100A.063
	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard 88KS Black Japanese Texture	KB.I100A.073
LCD		
	ASSY LED MODULE 10.1" WXGA Glare w/ ANTENNA, CCD, 3G-BLACK	6M.SFE02.001

Table 6-5. FRU List (Continued)

Category	Description	P/N
	ANTENNA 3G-MAIN	50.SFE02.001
	ANTENNA 3G-AUX	50.SFE02.002
	ANTENNA WLAN-MAIN	50.SES02.003
	ANTENNA WLAN-AUX	50.SES02.004
	LCD CABLE-52 FOR W/3G	50.SFE02.003
	LCD COVER IMR-52 BLACK FOR W/3G	60.SFE02.001
	LCD BEZEL-52	60.SES02.007
	LCD BRACKET R&L-52	33.SES02.003
	CAMERA 1.3M	57.SES02.001

Table 6-5. FRU List (Continued)

Category	Description	P/N
	LED LCD SAMSUNG 10.1" WXGA Glare LTN101AT01-A01 LF 200nit 16ms 600:1	LK.10106.002
	LED LCD AUO 10.1" WXGA Glare B101EW02 V0 LF 200nit 16ms	LK.10105.003
LCD		
	ASSY LED MODULE 10.1" WXGA Glare w/ ANTENNA, CCD, BLACK	6M.SES02.001
	ANTENNA WLAN-MAIN	50.SES02.003
	ANTENNA WLAN-AUX	50.SES02.004
	LCD CABLE-52 FOR W/O 3G	50.SES02.005
	LCD COVER IMR-52 BLACK FOR W/O 3G	60.SES02.004
	LCD BEZEL-52	60.SES02.007
	LCD BRACKET R&L-52	33.SES02.003
	CAMERA 1.3M	57.SES02.001

Table 6-5. FRU List (Continued)

Category	Description	P/N
	LED LCD SAMSUNG 10.1" WXGA Glare LTN101AT01-A01 LF 200nit 16ms 600:1	LK.10106.002
	LED LCD AUO 10.1" WXGA Glare B101EW02 V0 LF 200nit 16ms	LK.10105.003
LCD		
	ASSY LED MODULE 10.1" WSVGA Glare w/ ANTENNA, CCD, 3G-BLACK	6M.SFE02.002
	ANTENNA 3G-MAIN	50.SFE02.001
	ANTENNA 3G-AUX	50.SFE02.002
	ANTENNA WLAN-MAIN	50.SES02.003
	ANTENNA WLAN-AUX	50.SES02.004
	LCD CABLE-36 FOR W/3G	50.SFE02.004
	LCD COVER IMR-36 BLACK FOR W/3G	60.SFE02.002

Table 6-5. FRU List (Continued)

Category	Description	P/N
	LCD BEZEL-36	60.SES02.006
	LCD BRACKET R&L-36	33.SES02.004
	CAMERA 1.3M	57.SES02.001
	LED LCD AUO 10.1" WSVGA Glare B101AW06 V1 LF 200nit 8ms 500:1	LK.10105.002
LCD		
	ASSY LED MODULE 10.1" WSVGA Glare w/ ANTENNA, CCD, BLACK	6M.SES02.002
	ANTENNA WLAN-MAIN	50.SES02.003
	ANTENNA WLAN-AUX	50.SES02.004
	LCD CABLE-36 FOR W/O 3G	50.SES02.006
	LCD COVER IMR-36 BLACK FOR W/O 3G	60.SES02.005

Table 6-5. FRU List (Continued)

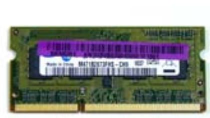
Category	Description	P/N
	LCD BEZEL-36	60.SES02.006
	LCD BRACKET R&L-52	33.SES02.003
	CAMERA 1.3M	57.SES02.001
	LED LCD AUO 10.1" WSVGA Glare B101AW06 V1 LF 200nit 8ms 500:1	LK.10105.002
MAINBOARD		
	Mainboard Aspire One 522 LF CPU C50, with 3G	MB.SES02.002
	Mainboard Aspire One 522 LF CPU C50, w/o 3G	MB.SES02.001
MEMORY		
	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm	KN.1GB0B.035
	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um	KN.1GB07.004
	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um	KN.2GB07.004
	Memory UNIFOSA SO-DIMM DDRIII 1333 2GB GU6C2303EP0200 LF 128*8 0.065um	KN.2GB0H.010
HEATSINK		
	THERMAL MODULE W/FAN	60.SES02.008
SPEAKER		
	MIC SET-52	23.SES02.001
	MIC SET-36	23.SES02.002

Table 6-5. FRU List (Continued)

Category	Description	P/N
	SPEAKER L	23.SES02.003
MISCELLANEOUS		
	HDD MYLAR	47.SES02.001
	MIC MYLAR	47.SES02.002
	LCD SCREW PAD	47.SES02.003

Screw List

Table 6-6. FRU Screw List

Category	Description	P/N
SCREW		
	SCREW 2.0D 2.5L K 5D ZK NL	86.SES02.001
	SCREW 2D 3L K 4.5D ZK NL CR3 0.4T	86.SES02.002
	SCREW 2D 3L K 4.5D ZK NL	86.SES02.003
	SCREW 2D 4.0L K 4.0D NI NL 0.3T	86.SES02.004
	SCREW 2D 5L K 4.6D ZK NL CR3	86.SES02.005
	SCREW 2D 7L K 4.6D ZK NL CR3	86.SES02.006
	SCREW 3.0D 3.0L K 4.9D NI	86.SES02.007

CHAPTER 7

Model Definition and Configuration

Model Definition and Configuration

AO522

Table 7-1. RO & Description

Model	Country	Acer Part No	RO	Description
AO522-C3Dkk	WW	S2.SES0D.001	WW	AO522-C3Dkk SNW7ST32SSWW1 MC UMACkk_3 1*1G/250/3L2.2/5R/CB_GN_1.3C_GEk_ES62
AO522-C58kk	ACLA-ES	LU.SES08.005	PA	AO522-C58kk EM W7ST32EMSSEA1 MC UMACkk_3 1*2G/250/6L2.2/5R/CB_GN_1.3C_GEk_PT21
AO522-C58kk	MY	LU.SES08.011	AAP	AO522-C58kk EM W7ST32EMSSMY1 MC UMACkk_3 1*2G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C58kk	PH	LU.SES08.006	AAP	AO522-C58kk EM W7ST32EMSSPH1 MC UMACkk_3 1*2G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C58kk	RU	LU.SES08.001	EMEA	AO522-C58kk W7ST32RUSSRU1 MC UMACkk_3 1*2G/250/BT/6L2.2/5R/CB_bg_1.3C_GEk_RU62
AO522-C58kk	RU	LU.SES08.007	EMEA	AO522-C58kk W7ST32RUSSRU1 MC UMACkk_3 1*1G/250/3L2.2/5R/CB_bg_1.3C_GEk_RU63
AO522-C58kk	TH	LU.SES08.002	AAP	AO522-C58kk EM W7ST32EMSSTH1 MC UMACkk_3 1*2G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TH71
AO522-C58kk	TH	LU.SES08.003	AAP	AO522-C58kk EM W7ST32EMSSTH4 MC UMACkk_3 1*2G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C58kk	TH	LU.SES08.004	AAP	AO522-C58kk EM W7ST32EMSSTH3 MC UMACkk_3 1*2G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C58kk	TH	LU.SES08.008	AAP	AO522-C58kk EM W7ST32EMSSTH3 MC UMACkk_3 1*2G/500_L/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C58kk	TH	LU.SES08.009	AAP	AO522-C58kk EM W7ST32EMSSTH4 MC UMACkk_3 1*2G/500_L/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C58kk	TH	LU.SES08.010	AAP	AO522-C58kk EM W7ST32EMSSTH1 MC UMACkk_3 1*2G/500_L/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TH71
AO522-C5Cgrgr	WW	S2.SFH0C.001	WW	AO522-C5Cgrgr LINPUSSWW1 UMACgg_3 1*1G/250/3L2.2/5R/CB_GN_1.3C_GI_ES61
AO522-C5Ckk	TH	LU.SES0C.001	AAP	AO522-C5Ckk LINPUSSTH3 UMACkk_3 1*2G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C5Ckk	TH	LU.SES0C.002	AAP	AO522-C5Ckk LINPUSSTH4 UMACkk_3 1*2G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C5Ckk	TH	LU.SES0C.003	AAP	AO522-C5Ckk LINPUSSTH1 UMACkk_3 1*2G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TH51
AO522-C5Ckk	TH	LU.SES0C.004	AAP	AO522-C5Ckk LINPUSSTH3 UMACkk_3 1*1G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C5Ckk	TH	LU.SES0C.005	AAP	AO522-C5Ckk LINPUSSTH4 UMACkk_3 1*1G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C5Ckk	TH	LU.SES0C.006	AAP	AO522-C5Ckk LINPUSSTH1 UMACkk_3 1*1G/320/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TH51
AO522-C5Ckk	TH	LU.SES0C.007	AAP	AO522-C5Ckk LINPUSSTH3 UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Ckk	TH	LU.SES0C.008	AAP	AO522-C5Ckk LINPUSSTH4 UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_ES61
AO522-C5Ckk	TH	LU.SES0C.009	AAP	AO522-C5Ckk LINPUSSTH1 UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TH51
AO522-C5Dgrgr	DE	LU.SFH0D.002	EMEA	AO522-C5Dgrgr SNW7ST32SSDE1 MC UMACgg_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GI_DE12
AO522-C5Dgrgr	US	LU.SFH0D.001	PA	AO522-C5Dgrgr SNW7ST32SSUS1 MC UMACgg_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GI_FRBF
AO522-C5Dkk	AL/MK	LU.SES0D.017	EMEA	AO522-C5Dkk SNW7ST32ERSSAL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_A111
AO522-C5Dkk	DZ	LU.SES0D.019	EMEA	AO522-C5Dkk EM SNW7ST32EMSSDZ1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARB1
AO522-C5Dkk	AT	LU.SES0D.050	EMEA	AO522-C5Dkk SNW7ST32SSAT1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_DE62
AO522-C5Dkk	Baltic	LU.SES0D.051	EMEA	AO522-C5Dkk SNW7ST32STBC5 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_LT11
AO522-C5Dkk	Baltic	LU.SES0D.052	EMEA	AO522-C5Dkk SNW7ST32STBC3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_SV21
AO522-C5Dkk	Baltic	LU.SES0D.053	EMEA	AO522-C5Dkk SNW7ST32STBC4 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_LT11

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	Baltic	LU.SES0D.054	EMEA	AO522-C5Dkk SNW7ST32SSBC5 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_LT11
AO522-C5Dkk	Baltic	LU.SES0D.055	EMEA	AO522-C5Dkk SNW7ST32SSBC3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_SV21
AO522-C5Dkk	Baltic	LU.SES0D.056	EMEA	AO522-C5Dkk SNW7ST32SSBC4 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_LT11
AO522-C5Dkk	BE	LU.SES0D.013	EMEA	AO522-C5Dkk SNW7ST32SSBE1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_NL11
AO522-C5Dkk	BE	LU.SES0D.057	EMEA	AO522-C5Dkk SNW7ST32STBE1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_NL11
AO522-C5Dkk	BG	LU.SES0D.058	EMEA	AO522-C5Dkk SNW7ST32SSBG1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_RO11
AO522-C5Dkk	BG	LU.SES0D.059	EMEA	AO522-C5Dkk SNW7ST32STBG1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_RO11
AO522-C5Dkk	CA	LU.SES0D.006	PA	AO522-C5Dkk SNW7ST32SSCA2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FR88
AO522-C5Dkk	CY	LU.SES0D.060	EMEA	AO522-C5Dkk SNW7ST32STCY1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	CY	LU.SES0D.061	EMEA	AO522-C5Dkk SNW7ST32SSCY1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	CZ	LU.SES0D.062	EMEA	AO522-C5Dkk SNW7ST32STCZ2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_SK11

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	CZ	LU.SES0D.063	EMEA	AO522-C5Dkk SNW7ST32SSCZ2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_SK11
AO522-C5Dkk	CZ	LU.SES0D.089	EMEA	AO522-C5Dkk SNW7ST32SSCZ2 MC UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_GEk_SK11
AO522-C5Dkk	DK	LU.SES0D.064	EMEA	AO522-C5Dkk SNW7ST32STDK2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ENS1
AO522-C5Dkk	DK	LU.SES0D.065	EMEA	AO522-C5Dkk SNW7ST32SSDK2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ENS1
AO522-C5Dkk	FR	LU.SES0D.011	EMEA	AO522-C5Dkk SNW7ST32SSFR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FR21
AO522-C5Dkk	FR	LU.SES0D.066	EMEA	AO522-C5Dkk SNW7ST32STFR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FR21
AO522-C5Dkk	FR	LU.SES0D.067	EMEA	AO522-C5Dkk SNW7ST32SSFR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FR22
AO522-C5Dkk	GCTWN	LU.SES0D.005	TWN	AO522-C5Dkk SNW7ST32SSTW1 MC UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_BAG_GEk_TC41
AO522-C5Dkk	GCTWN	S2.SES0D.002	WW	AO522-C5Dkk SNW7ST32SSWW1 MC UMACkk_3 1*1G/250/BT/3L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	DE	LU.SES0D.068	EMEA	AO522-C5Dkk SNW7ST32SSDE1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_DE12
AO522-C5Dkk	DE	LU.SES0D.090	EMEA	AO522-C5Dkk SNW7ST32SSDE1 MC UMACkk_3 1*1G/250/BT/6L2.2/5R/CB_GN_1.3C_GEk_DE12

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	GR	LU.SES0D.069	EMEA	AO522-C5Dkk SNW7ST32STGR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EL31
AO522-C5Dkk	GR	LU.SES0D.070	EMEA	AO522-C5Dkk SNW7ST32SSGR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EL31
AO522-C5Dkk	GR	LU.SES0D.071	EMEA	AO522-C5Dkk SNW7ST32STGR3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EH41
AO522-C5Dkk	GR	LU.SES0D.072	EMEA	AO522-C5Dkk SNW7ST32SSGR3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EH41
AO522-C5Dkk	NL	LU.SES0D.012	EMEA	AO522-C5Dkk SNW7ST32SSNL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_NL11
AO522-C5Dkk	HU	LU.SES0D.073	EMEA	AO522-C5Dkk SNW7ST32STHU1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_HU11
AO522-C5Dkk	HU	LU.SES0D.074	EMEA	AO522-C5Dkk SNW7ST32SSHU1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_HU11
AO522-C5Dkk	IL	LU.SES0D.075	EMEA	AO522-C5Dkk SNW7ST32SSIL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_HE71
AO522-C5Dkk	IL	LU.SES0D.076	EMEA	AO522-C5Dkk SNW7ST32STIL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_HE11
AO522-C5Dkk	IL	LU.SES0D.077	EMEA	AO522-C5Dkk SNW7ST32SSIL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_HE11
AO522-C5Dkk	IT	LU.SES0D.078	EMEA	AO522-C5Dkk SNW7ST32STIT1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_IT11

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	IT	LU.SES0D.079	EMEA	AO522-C5Dkk SNW7ST32SSIT1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_IT11
AO522-C5Dkk	LU	LU.SES0D.080	EMEA	AO522-C5Dkk SNW7ST32SSLU3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_IT41
AO522-C5Dkk	ME	LU.SES0D.020	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME4 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.021	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_AR21
AO522-C5Dkk	ME	LU.SES0D.022	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_AR21
AO522-C5Dkk	ME	LU.SES0D.023	EMEA	AO522-C5Dkk EM SNW7ST32EMSTMEB MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	ME	LU.SES0D.024	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.025	EMEA	AO522-C5Dkk EM SNW7ST32EMSSMEC MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.026	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME6 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	ME	LU.SES0D.027	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME4 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.028	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME6 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.029	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME6 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.030	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME4 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.031	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ME	LU.SES0D.032	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ME	LU.SES0D.033	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.034	EMEA	AO522-C5Dkk EM SNW7ST32EMSSMEB MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	ME	LU.SES0D.035	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME9 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	ME	LU.SES0D.036	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	ME	LU.SES0D.037	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME9 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ME	LU.SES0D.038	EMEA	AO522-C5Dkk EM SNW7ST32EMSRME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ME	LU.SES0D.039	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME3 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ME	LU.SES0D.040	EMEA	AO522-C5Dkk EM SNW7ST32EMSSMEC MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	ME	LU.SES0D.041	EMEA	AO522-C5Dkk EM SNW7ST32EMSTME9 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ME	LU.SES0D.042	EMEA	AO522-C5Dkk EM SNW7ST32EMSRMEB MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	ME	LU.SES0D.043	EMEA	AO522-C5Dkk EM SNW7ST32EMSSME2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ARA1
AO522-C5Dkk	PL	LU.SES0D.081	EMEA	AO522-C5Dkk SNW7ST32SSPL1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_PL11

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	PT	LU.SES0D.082	EMEA	AO522-C5Dkk SNW7ST32SSPT1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_PT11
AO522-C5Dkk	PT	LU.SES0D.083	EMEA	AO522-C5Dkk SNW7ST32STPT1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_PT11
AO522-C5Dkk	RU	LU.SES0D.014	EMEA	AO522-C5Dkk SNW7ST32RUSSRU1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_bg_1.3C_GEk_ES61
AO522-C5Dkk	RU	LU.SES0D.015	EMEA	AO522-C5Dkk SNW7ST32RUSSRU1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_bg_1.3C_GEk_RU62
AO522-C5Dkk	RU	LU.SES0D.091	EMEA	AO522-C5Dkk SNW7ST32RUSSRU1 MC UMACkk_3 1*1G/250/3L2.2/5R/CB_GN_1.3C_GEk_RU62
AO522-C5Dkk	YU/BA	LU.SES0D.018	EMEA	AO522-C5Dkk SNW7ST32ERSSBA1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_A151
AO522-C5Dkk	SI/HR	LU.SES0D.084	EMEA	AO522-C5Dkk SNW7ST32SSSI1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_SL11
AO522-C5Dkk	SI/HR	LU.SES0D.088	EMEA	AO522-C5Dkk SNW7ST32SSSI1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ZA	LU.SES0D.044	EMEA	AO522-C5Dkk EM SNW7ST32EMSSZA1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES81
AO522-C5Dkk	ZA	LU.SES0D.045	EMEA	AO522-C5Dkk EM SNW7ST32EMSSZA5 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	ZA	LU.SES0D.046	EMEA	AO522-C5Dkk EM SNW7ST32EMSSZA2 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES61
AO522-C5Dkk	ES	LU.SES0D.009	EMEA	AO522-C5Dkk SNW7ST32SSES1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_ES51
AO522-C5Dkk	CH	LU.SES0D.085	EMEA	AO522-C5Dkk SNW7ST32STCH1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_IT41
AO522-C5Dkk	CH	LU.SES0D.086	EMEA	AO522-C5Dkk SNW7ST32SSCH1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_IT41
AO522-C5Dkk	TR	LU.SES0D.047	EMEA	AO522-C5Dkk EM SNW7ST32EMSSTR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_TR31
AO522-C5Dkk	TR	LU.SES0D.048	EMEA	AO522-C5Dkk EM SNW7ST32EMSTTR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_TR31
AO522-C5Dkk	TR	LU.SES0D.049	EMEA	AO522-C5Dkk EM SNW7ST32EMSRTR1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_TR31
AO522-C5Dkk	UK	LU.SES0D.008	EMEA	AO522-C5Dkk SNW7ST32SSGB1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EN11
AO522-C5Dkk	UK	LU.SES0D.087	EMEA	AO522-C5Dkk SNW7ST32STGB1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_EN11
AO522-C5Dkk	UA	LU.SES0D.016	EMEA	AO522-C5Dkk SNW7ST32RUSSUK1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_RU61

Table 7-1. RO & Description (Continued)

Model	Country	Acer Part No	RO	Description
AO522-C5Dkk	US	LU.SES0D.007	PA	AO522-C5Dkk SNW7ST32SSUS1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FRBG
AO522-C5Dkk	US	LU.SES0D.010	PA	AO522-C5Dkk SNW7ST32SSUS1 MC UMACkk_3 1*1G/250/6L2.2/5R/CB_GN_1.3C_GEk_FRBF
AO522-C5Dkk	WW	S2.SES0D.003	WW	AO522-C5Dkk SNW7ST32SSWW1 MC UMACkk_3 1*1G/250/BT/3L2.2/5R/CB_GN_1.3C_GEk_ES62
AO522-C5Dkk	WW	S2.SES0D.004	WW	AO522-C5Dkk SNW7ST32SSWW1 MC UMACkk_3 1*2G/250/BT/3L2.2/5R/CBSDS_GN_1.3C_GEk_ES62

Table 7-2. BOM Name & CPU

Model	Country	Acer Part No	BOM Name	CPU
AO522-C3Dkk	WW	S2.SES0D.001	AO522_UMACkk_3	AMDC30B
AO522-C58kk	ACLA-ES	LU.SES08.005	AO522_UMACkk_3	AMDC50B
AO522-C58kk	MY	LU.SES08.011	AO522_UMACkk_3	AMDC50B
AO522-C58kk	PH	LU.SES08.006	AO522_UMACkk_3	AMDC50B
AO522-C58kk	RU	LU.SES08.001	AO522_UMACkk_3	AMDC50B
AO522-C58kk	RU	LU.SES08.007	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.002	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.003	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.004	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.008	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.009	AO522_UMACkk_3	AMDC50B
AO522-C58kk	TH	LU.SES08.010	AO522_UMACkk_3	AMDC50B
AO522-C5Cgrgr	WW	S2.SFH0C.001	AO522_UMACgg_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.001	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.002	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.003	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.004	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.005	AO522_UMACkk_3	AMDC50B

Table 7-2. BOM Name & CPU (Continued)

Model	Country	Acer Part No	BOM Name	CPU
AO522-C5Ckk	TH	LU.SES0C.006	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.007	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.008	AO522_UMACkk_3	AMDC50B
AO522-C5Ckk	TH	LU.SES0C.009	AO522_UMACkk_3	AMDC50B
AO522-C5Dgrgr	DE	LU.SFH0D.002	AO522_UMACgg_3	AMDC50B
AO522-C5Dgrgr	US	LU.SFH0D.001	AO522_UMACgg_3	AMDC50B
AO522-C5Dkk	AL/MK	LU.SES0D.017	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	DZ	LU.SES0D.019	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	AT	LU.SES0D.050	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.051	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.052	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.053	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.054	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.055	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	Baltic	LU.SES0D.056	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	BE	LU.SES0D.013	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	BE	LU.SES0D.057	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	BG	LU.SES0D.058	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	BG	LU.SES0D.059	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CA	LU.SES0D.006	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CY	LU.SES0D.060	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CY	LU.SES0D.061	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CZ	LU.SES0D.062	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CZ	LU.SES0D.063	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CZ	LU.SES0D.089	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	DK	LU.SES0D.064	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	DK	LU.SES0D.065	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	FR	LU.SES0D.011	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	FR	LU.SES0D.066	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	FR	LU.SES0D.067	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GCTWN	LU.SES0D.005	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GCTWN	S2.SES0D.002	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	DE	LU.SES0D.068	AO522_UMACkk_3	AMDC50B

Table 7-2. BOM Name & CPU (Continued)

Model	Country	Acer Part No	BOM Name	CPU
AO522-C5Dkk	DE	LU.SES0D.090	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GR	LU.SES0D.069	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GR	LU.SES0D.070	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GR	LU.SES0D.071	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	GR	LU.SES0D.072	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	NL	LU.SES0D.012	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	HU	LU.SES0D.073	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	HU	LU.SES0D.074	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	IL	LU.SES0D.075	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	IL	LU.SES0D.076	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	IL	LU.SES0D.077	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	IT	LU.SES0D.078	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	IT	LU.SES0D.079	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	LU	LU.SES0D.080	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.020	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.021	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.022	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.023	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.024	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.025	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.026	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.027	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.028	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.029	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.030	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.031	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.032	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.033	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.034	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.035	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.036	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.037	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.038	AO522_UMACkk_3	AMDC50B

Table 7-2. BOM Name & CPU (Continued)

Model	Country	Acer Part No	BOM Name	CPU
AO522-C5Dkk	ME	LU.SES0D.039	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.040	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.041	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.042	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ME	LU.SES0D.043	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	PL	LU.SES0D.081	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	PT	LU.SES0D.082	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	PT	LU.SES0D.083	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	RU	LU.SES0D.014	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	RU	LU.SES0D.015	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	RU	LU.SES0D.091	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	YU/BA	LU.SES0D.018	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	SI/HR	LU.SES0D.084	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	SI/HR	LU.SES0D.088	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ZA	LU.SES0D.044	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ZA	LU.SES0D.045	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ZA	LU.SES0D.046	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	ES	LU.SES0D.009	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CH	LU.SES0D.085	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	CH	LU.SES0D.086	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	TR	LU.SES0D.047	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	TR	LU.SES0D.048	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	TR	LU.SES0D.049	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	UK	LU.SES0D.008	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	UK	LU.SES0D.087	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	UA	LU.SES0D.016	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	US	LU.SES0D.007	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	US	LU.SES0D.010	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	WW	S2.SES0D.003	AO522_UMACkk_3	AMDC50B
AO522-C5Dkk	WW	S2.SES0D.004	AO522_UMACkk_3	AMDC50B

Table 7-3. LCD & VGA Chip

Model	Country	Acer Part No	LCD	VGA Chip
AO522-C3Dkk	WW	S2.SES0D.001	NLED10.1WXGAG	UMA
AO522-C58kk	ACLA-ES	LU.SES08.005	NLED10.1WXGAG	UMA
AO522-C58kk	MY	LU.SES08.011	NLED10.1WXGAG	UMA
AO522-C58kk	PH	LU.SES08.006	NLED10.1WXGAG	UMA
AO522-C58kk	RU	LU.SES08.001	NLED10.1WXGAG	UMA
AO522-C58kk	RU	LU.SES08.007	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.002	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.003	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.004	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.008	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.009	NLED10.1WXGAG	UMA
AO522-C58kk	TH	LU.SES08.010	NLED10.1WXGAG	UMA
AO522-C5Cgrgr	WW	S2.SFH0C.001	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.001	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.002	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.003	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.004	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.005	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.006	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.007	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.008	NLED10.1WXGAG	UMA
AO522-C5Ckk	TH	LU.SES0C.009	NLED10.1WXGAG	UMA
AO522-C5Dgrgr	DE	LU.SFH0D.002	NLED10.1WXGAG	UMA
AO522-C5Dgrgr	US	LU.SFH0D.001	NLED10.1WXGAG	UMA
AO522-C5Dkk	AL/MK	LU.SES0D.017	NLED10.1WXGAG	UMA
AO522-C5Dkk	DZ	LU.SES0D.019	NLED10.1WXGAG	UMA
AO522-C5Dkk	AT	LU.SES0D.050	NLED10.1WXGAG	UMA
AO522-C5Dkk	Baltic	LU.SES0D.051	NLED10.1WXGAG	UMA
AO522-C5Dkk	Baltic	LU.SES0D.052	NLED10.1WXGAG	UMA
AO522-C5Dkk	Baltic	LU.SES0D.053	NLED10.1WXGAG	UMA
AO522-C5Dkk	Baltic	LU.SES0D.054	NLED10.1WXGAG	UMA
AO522-C5Dkk	Baltic	LU.SES0D.055	NLED10.1WXGAG	UMA

Table 7-3. LCD & VGA Chip (Continued)

Model	Country	Acer Part No	LCD	VGA Chip
AO522-C5Dkk	Baltic	LU.SES0D.056	NLED10.1WXGAG	UMA
AO522-C5Dkk	BE	LU.SES0D.013	NLED10.1WXGAG	UMA
AO522-C5Dkk	BE	LU.SES0D.057	NLED10.1WXGAG	UMA
AO522-C5Dkk	BG	LU.SES0D.058	NLED10.1WXGAG	UMA
AO522-C5Dkk	BG	LU.SES0D.059	NLED10.1WXGAG	UMA
AO522-C5Dkk	CA	LU.SES0D.006	NLED10.1WXGAG	UMA
AO522-C5Dkk	CY	LU.SES0D.060	NLED10.1WXGAG	UMA
AO522-C5Dkk	CY	LU.SES0D.061	NLED10.1WXGAG	UMA
AO522-C5Dkk	CZ	LU.SES0D.062	NLED10.1WXGAG	UMA
AO522-C5Dkk	CZ	LU.SES0D.063	NLED10.1WXGAG	UMA
AO522-C5Dkk	CZ	LU.SES0D.089	NLED10.1WXGAG	UMA
AO522-C5Dkk	DK	LU.SES0D.064	NLED10.1WXGAG	UMA
AO522-C5Dkk	DK	LU.SES0D.065	NLED10.1WXGAG	UMA
AO522-C5Dkk	FR	LU.SES0D.011	NLED10.1WXGAG	UMA
AO522-C5Dkk	FR	LU.SES0D.066	NLED10.1WXGAG	UMA
AO522-C5Dkk	FR	LU.SES0D.067	NLED10.1WXGAG	UMA
AO522-C5Dkk	GCTWN	LU.SES0D.005	NLED10.1WXGAG	UMA
AO522-C5Dkk	GCTWN	S2.SES0D.002	NLED10.1WXGAG	UMA
AO522-C5Dkk	DE	LU.SES0D.068	NLED10.1WXGAG	UMA
AO522-C5Dkk	DE	LU.SES0D.090	NLED10.1WXGAG	UMA
AO522-C5Dkk	GR	LU.SES0D.069	NLED10.1WXGAG	UMA
AO522-C5Dkk	GR	LU.SES0D.070	NLED10.1WXGAG	UMA
AO522-C5Dkk	GR	LU.SES0D.071	NLED10.1WXGAG	UMA
AO522-C5Dkk	GR	LU.SES0D.072	NLED10.1WXGAG	UMA
AO522-C5Dkk	NL	LU.SES0D.012	NLED10.1WXGAG	UMA
AO522-C5Dkk	HU	LU.SES0D.073	NLED10.1WXGAG	UMA
AO522-C5Dkk	HU	LU.SES0D.074	NLED10.1WXGAG	UMA
AO522-C5Dkk	IL	LU.SES0D.075	NLED10.1WXGAG	UMA
AO522-C5Dkk	IL	LU.SES0D.076	NLED10.1WXGAG	UMA
AO522-C5Dkk	IL	LU.SES0D.077	NLED10.1WXGAG	UMA
AO522-C5Dkk	IT	LU.SES0D.078	NLED10.1WXGAG	UMA
AO522-C5Dkk	IT	LU.SES0D.079	NLED10.1WXGAG	UMA
AO522-C5Dkk	LU	LU.SES0D.080	NLED10.1WXGAG	UMA

Table 7-3. LCD & VGA Chip (Continued)

Model	Country	Acer Part No	LCD	VGA Chip
AO522-C5Dkk	ME	LU.SES0D.020	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.021	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.022	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.023	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.024	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.025	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.026	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.027	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.028	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.029	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.030	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.031	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.032	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.033	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.034	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.035	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.036	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.037	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.038	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.039	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.040	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.041	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.042	NLED10.1WXGAG	UMA
AO522-C5Dkk	ME	LU.SES0D.043	NLED10.1WXGAG	UMA
AO522-C5Dkk	PL	LU.SES0D.081	NLED10.1WXGAG	UMA
AO522-C5Dkk	PT	LU.SES0D.082	NLED10.1WXGAG	UMA
AO522-C5Dkk	PT	LU.SES0D.083	NLED10.1WXGAG	UMA
AO522-C5Dkk	RU	LU.SES0D.014	NLED10.1WXGAG	UMA
AO522-C5Dkk	RU	LU.SES0D.015	NLED10.1WXGAG	UMA
AO522-C5Dkk	RU	LU.SES0D.091	NLED10.1WXGAG	UMA
AO522-C5Dkk	YU/BA	LU.SES0D.018	NLED10.1WXGAG	UMA
AO522-C5Dkk	SI/HR	LU.SES0D.084	NLED10.1WXGAG	UMA
AO522-C5Dkk	SI/HR	LU.SES0D.088	NLED10.1WXGAG	UMA

Table 7-3. LCD & VGA Chip (Continued)

Model	Country	Acer Part No	LCD	VGA Chip
AO522-C5Dkk	ZA	LU.SES0D.044	NLED10.1WXGAG	UMA
AO522-C5Dkk	ZA	LU.SES0D.045	NLED10.1WXGAG	UMA
AO522-C5Dkk	ZA	LU.SES0D.046	NLED10.1WXGAG	UMA
AO522-C5Dkk	ES	LU.SES0D.009	NLED10.1WXGAG	UMA
AO522-C5Dkk	CH	LU.SES0D.085	NLED10.1WXGAG	UMA
AO522-C5Dkk	CH	LU.SES0D.086	NLED10.1WXGAG	UMA
AO522-C5Dkk	TR	LU.SES0D.047	NLED10.1WXGAG	UMA
AO522-C5Dkk	TR	LU.SES0D.048	NLED10.1WXGAG	UMA
AO522-C5Dkk	TR	LU.SES0D.049	NLED10.1WXGAG	UMA
AO522-C5Dkk	UK	LU.SES0D.008	NLED10.1WXGAG	UMA
AO522-C5Dkk	UK	LU.SES0D.087	NLED10.1WXGAG	UMA
AO522-C5Dkk	UA	LU.SES0D.016	NLED10.1WXGAG	UMA
AO522-C5Dkk	US	LU.SES0D.007	NLED10.1WXGAG	UMA
AO522-C5Dkk	US	LU.SES0D.010	NLED10.1WXGAG	UMA
AO522-C5Dkk	WW	S2.SES0D.003	NLED10.1WXGAG	UMA
AO522-C5Dkk	WW	S2.SES0D.004	NLED10.1WSVGAGS	UMA

Table 7-4. Memory 1 & HDD 1

Model	Country	Acer Part No	Memory 1	HDD 1(GB)
AO522-C3Dkk	WW	S2.SES0D.001	SO1GBIII10	N250GB5.4KS
AO522-C58kk	ACLA-ES	LU.SES08.005	SO2GBIII10	N250GB5.4KS
AO522-C58kk	MY	LU.SES08.011	SO2GBIII10	N320GB5.4KS
AO522-C58kk	PH	LU.SES08.006	SO2GBIII10	N250GB5.4KS
AO522-C58kk	RU	LU.SES08.001	SO2GBIII10	N250GB5.4KS
AO522-C58kk	RU	LU.SES08.007	SO1GBIII10	N250GB5.4KS
AO522-C58kk	TH	LU.SES08.002	SO2GBIII10	N250GB5.4KS
AO522-C58kk	TH	LU.SES08.003	SO2GBIII10	N250GB5.4KS
AO522-C58kk	TH	LU.SES08.004	SO2GBIII10	N250GB5.4KS
AO522-C58kk	TH	LU.SES08.008	SO2GBIII10	N500GB5.4KS
AO522-C58kk	TH	LU.SES08.009	SO2GBIII10	N500GB5.4KS
AO522-C58kk	TH	LU.SES08.010	SO2GBIII10	N500GB5.4KS
AO522-C5Cgrgr	WW	S2.SFH0C.001	SO1GBIII10	N250GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.001	SO2GBIII10	N320GB5.4KS

Table 7-4. **Memory 1 & HDD 1 (Continued)**

Model	Country	Acer Part No	Memory 1	HDD 1(GB)
AO522-C5Ckk	TH	LU.SES0C.002	SO2GBIII10	N320GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.003	SO2GBIII10	N320GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.004	SO1GBIII10	N320GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.005	SO1GBIII10	N320GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.006	SO1GBIII10	N320GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.007	SO1GBIII10	N250GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.008	SO1GBIII10	N250GB5.4KS
AO522-C5Ckk	TH	LU.SES0C.009	SO1GBIII10	N250GB5.4KS
AO522-C5Dgrgr	DE	LU.SFH0D.002	SO1GBIII10	N250GB5.4KS
AO522-C5Dgrgr	US	LU.SFH0D.001	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	AL/MK	LU.SES0D.017	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	DZ	LU.SES0D.019	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	AT	LU.SES0D.050	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.051	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.052	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.053	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.054	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.055	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	Baltic	LU.SES0D.056	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	BE	LU.SES0D.013	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	BE	LU.SES0D.057	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	BG	LU.SES0D.058	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	BG	LU.SES0D.059	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CA	LU.SES0D.006	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CY	LU.SES0D.060	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CY	LU.SES0D.061	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CZ	LU.SES0D.062	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CZ	LU.SES0D.063	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CZ	LU.SES0D.089	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	DK	LU.SES0D.064	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	DK	LU.SES0D.065	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	FR	LU.SES0D.011	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	FR	LU.SES0D.066	SO1GBIII10	N250GB5.4KS

Table 7-4. Memory 1 & HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	HDD 1(GB)
AO522-C5Dkk	FR	LU.SES0D.067	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GCTWN	LU.SES0D.005	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GCTWN	S2.SES0D.002	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	DE	LU.SES0D.068	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	DE	LU.SES0D.090	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GR	LU.SES0D.069	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GR	LU.SES0D.070	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GR	LU.SES0D.071	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	GR	LU.SES0D.072	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	NL	LU.SES0D.012	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	HU	LU.SES0D.073	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	HU	LU.SES0D.074	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	IL	LU.SES0D.075	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	IL	LU.SES0D.076	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	IL	LU.SES0D.077	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	IT	LU.SES0D.078	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	IT	LU.SES0D.079	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	LU	LU.SES0D.080	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.020	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.021	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.022	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.023	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.024	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.025	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.026	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.027	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.028	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.029	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.030	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.031	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.032	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.033	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.034	SO1GBIII10	N250GB5.4KS

Table 7-4. Memory 1 & HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	HDD 1(GB)
AO522-C5Dkk	ME	LU.SES0D.035	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.036	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.037	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.038	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.039	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.040	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.041	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.042	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ME	LU.SES0D.043	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	PL	LU.SES0D.081	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	PT	LU.SES0D.082	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	PT	LU.SES0D.083	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	RU	LU.SES0D.014	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	RU	LU.SES0D.015	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	RU	LU.SES0D.091	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	YU/BA	LU.SES0D.018	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	SI/HR	LU.SES0D.084	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	SI/HR	LU.SES0D.088	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ZA	LU.SES0D.044	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ZA	LU.SES0D.045	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ZA	LU.SES0D.046	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	ES	LU.SES0D.009	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CH	LU.SES0D.085	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	CH	LU.SES0D.086	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	TR	LU.SES0D.047	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	TR	LU.SES0D.048	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	TR	LU.SES0D.049	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	UK	LU.SES0D.008	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	UK	LU.SES0D.087	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	UA	LU.SES0D.016	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	US	LU.SES0D.007	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	US	LU.SES0D.010	SO1GBIII10	N250GB5.4KS
AO522-C5Dkk	WW	S2.SES0D.003	SO1GBIII10	N250GB5.4KS

Table 7-4. Memory 1 & HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	HDD 1(GB)
AO522-C5Dkk	WW	S2.SES0D.004	SO2GBIII10	N250GB5.4KS

Table 7-5. Card Reader & Wireless LAN 1

Model	Country	Acer Part No	Card Reader	Wireless LAN1
AO522-C3Dkk	WW	S2.SES0D.001	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	ACLA-ES	LU.SES08.005	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	MY	LU.SES08.011	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	PH	LU.SES08.006	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	RU	LU.SES08.001	5 in 1-Build in	3rd WiFi BG
AO522-C58kk	RU	LU.SES08.007	5 in 1-Build in	3rd WiFi BG
AO522-C58kk	TH	LU.SES08.002	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	TH	LU.SES08.003	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	TH	LU.SES08.004	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	TH	LU.SES08.008	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	TH	LU.SES08.009	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C58kk	TH	LU.SES08.010	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Cgrgr	WW	S2.SFH0C.001	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.001	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.002	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.003	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.004	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.005	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.006	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.007	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.008	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Ckk	TH	LU.SES0C.009	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dgrgr	DE	LU.SFH0D.002	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dgrgr	US	LU.SFH0D.001	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	AL/MK	LU.SES0D.017	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	DZ	LU.SES0D.019	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	AT	LU.SES0D.050	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	Baltic	LU.SES0D.051	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	Baltic	LU.SES0D.052	5 in 1-Build in	3rd WiFi 1x1 BGN

Table 7-5. Card Reader & Wireless LAN 1 (Continued)

Model	Country	Acer Part No	Card Reader	Wireless LAN1
AO522-C5Dkk	Baltic	LU.SES0D.053	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	Baltic	LU.SES0D.054	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	Baltic	LU.SES0D.055	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	Baltic	LU.SES0D.056	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	BE	LU.SES0D.013	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	BE	LU.SES0D.057	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	BG	LU.SES0D.058	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	BG	LU.SES0D.059	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CA	LU.SES0D.006	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CY	LU.SES0D.060	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CY	LU.SES0D.061	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CZ	LU.SES0D.062	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CZ	LU.SES0D.063	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CZ	LU.SES0D.089	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	DK	LU.SES0D.064	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	DK	LU.SES0D.065	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	FR	LU.SES0D.011	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	FR	LU.SES0D.066	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	FR	LU.SES0D.067	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GCTWN	LU.SES0D.005	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GCTWN	S2.SES0D.002	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	DE	LU.SES0D.068	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	DE	LU.SES0D.090	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GR	LU.SES0D.069	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GR	LU.SES0D.070	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GR	LU.SES0D.071	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	GR	LU.SES0D.072	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	NL	LU.SES0D.012	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	HU	LU.SES0D.073	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	HU	LU.SES0D.074	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	IL	LU.SES0D.075	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	IL	LU.SES0D.076	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	IL	LU.SES0D.077	5 in 1-Build in	3rd WiFi 1x1 BGN

Table 7-5. Card Reader & Wireless LAN 1 (Continued)

Model	Country	Acer Part No	Card Reader	Wireless LAN1
AO522-C5Dkk	IT	LU.SES0D.078	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	IT	LU.SES0D.079	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	LU	LU.SES0D.080	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.020	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.021	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.022	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.023	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.024	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.025	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.026	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.027	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.028	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.029	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.030	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.031	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.032	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.033	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.034	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.035	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.036	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.037	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.038	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.039	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.040	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.041	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.042	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ME	LU.SES0D.043	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	PL	LU.SES0D.081	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	PT	LU.SES0D.082	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	PT	LU.SES0D.083	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	RU	LU.SES0D.014	5 in 1-Build in	3rd WiFi BG
AO522-C5Dkk	RU	LU.SES0D.015	5 in 1-Build in	3rd WiFi BG
AO522-C5Dkk	RU	LU.SES0D.091	5 in 1-Build in	3rd WiFi 1x1 BGN

Table 7-5. **Card Reader & Wireless LAN 1 (Continued)**

Model	Country	Acer Part No	Card Reader	Wireless LAN1
AO522-C5Dkk	YU/BA	LU.SES0D.018	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	SI/HR	LU.SES0D.084	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	SI/HR	LU.SES0D.088	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ZA	LU.SES0D.044	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ZA	LU.SES0D.045	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ZA	LU.SES0D.046	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	ES	LU.SES0D.009	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CH	LU.SES0D.085	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	CH	LU.SES0D.086	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	TR	LU.SES0D.047	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	TR	LU.SES0D.048	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	TR	LU.SES0D.049	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	UK	LU.SES0D.008	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	UK	LU.SES0D.087	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	UA	LU.SES0D.016	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	US	LU.SES0D.007	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	US	LU.SES0D.010	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	WW	S2.SES0D.003	5 in 1-Build in	3rd WiFi 1x1 BGN
AO522-C5Dkk	WW	S2.SES0D.004	5 in 1-Build in	3rd WiFi 1x1 BGN

Table 7-6. **Bluetooth & NB Chipset**

Model	Country	Acer Part No	Bluetooth	NB Chipset
AO522-C3Dkk	WW	S2.SES0D.001	N	AMD A50M FCH
AO522-C58kk	ACLA-ES	LU.SES08.005	N	AMD A50M FCH
AO522-C58kk	MY	LU.SES08.011	BT 3.0	AMD A50M FCH
AO522-C58kk	PH	LU.SES08.006	BT 3.0	AMD A50M FCH
AO522-C58kk	RU	LU.SES08.001	BT 3.0	AMD A50M FCH
AO522-C58kk	RU	LU.SES08.007	N	AMD A50M FCH
AO522-C58kk	TH	LU.SES08.002	BT 3.0	AMD A50M FCH
AO522-C58kk	TH	LU.SES08.003	BT 3.0	AMD A50M FCH
AO522-C58kk	TH	LU.SES08.004	BT 3.0	AMD A50M FCH
AO522-C58kk	TH	LU.SES08.008	BT 3.0	AMD A50M FCH
AO522-C58kk	TH	LU.SES08.009	BT 3.0	AMD A50M FCH

Table 7-6. **Bluetooth & NB Chipset (Continued)**

Model	Country	Acer Part No	Bluetooth	NB Chipset
AO522-C58kk	TH	LU.SES08.010	BT 3.0	AMD A50M FCH
AO522-C5Cgrgr	WW	S2.SFH0C.001	N	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.001	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.002	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.003	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.004	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.005	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.006	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.007	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.008	BT 2.1	AMD A50M FCH
AO522-C5Ckk	TH	LU.SES0C.009	BT 2.1	AMD A50M FCH
AO522-C5Dgrgr	DE	LU.SFH0D.002	N	AMD A50M FCH
AO522-C5Dgrgr	US	LU.SFH0D.001	N	AMD A50M FCH
AO522-C5Dkk	AL/MK	LU.SES0D.017	N	AMD A50M FCH
AO522-C5Dkk	DZ	LU.SES0D.019	N	AMD A50M FCH
AO522-C5Dkk	AT	LU.SES0D.050	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.051	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.052	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.053	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.054	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.055	N	AMD A50M FCH
AO522-C5Dkk	Baltic	LU.SES0D.056	N	AMD A50M FCH
AO522-C5Dkk	BE	LU.SES0D.013	N	AMD A50M FCH
AO522-C5Dkk	BE	LU.SES0D.057	N	AMD A50M FCH
AO522-C5Dkk	BG	LU.SES0D.058	N	AMD A50M FCH
AO522-C5Dkk	BG	LU.SES0D.059	N	AMD A50M FCH
AO522-C5Dkk	CA	LU.SES0D.006	N	AMD A50M FCH
AO522-C5Dkk	CY	LU.SES0D.060	N	AMD A50M FCH
AO522-C5Dkk	CY	LU.SES0D.061	N	AMD A50M FCH
AO522-C5Dkk	CZ	LU.SES0D.062	N	AMD A50M FCH
AO522-C5Dkk	CZ	LU.SES0D.063	N	AMD A50M FCH
AO522-C5Dkk	CZ	LU.SES0D.089	BT 3.0	AMD A50M FCH
AO522-C5Dkk	DK	LU.SES0D.064	N	AMD A50M FCH

Table 7-6. Bluetooth & NB Chipset (Continued)

Model	Country	Acer Part No	Bluetooth	NB Chipset
AO522-C5Dkk	DK	LU.SES0D.065	N	AMD A50M FCH
AO522-C5Dkk	FR	LU.SES0D.011	N	AMD A50M FCH
AO522-C5Dkk	FR	LU.SES0D.066	N	AMD A50M FCH
AO522-C5Dkk	FR	LU.SES0D.067	N	AMD A50M FCH
AO522-C5Dkk	GCTWN	LU.SES0D.005	BT 3.0	AMD A50M FCH
AO522-C5Dkk	GCTWN	S2.SES0D.002	BT 3.0	AMD A50M FCH
AO522-C5Dkk	DE	LU.SES0D.068	N	AMD A50M FCH
AO522-C5Dkk	DE	LU.SES0D.090	BT 3.0	AMD A50M FCH
AO522-C5Dkk	GR	LU.SES0D.069	N	AMD A50M FCH
AO522-C5Dkk	GR	LU.SES0D.070	N	AMD A50M FCH
AO522-C5Dkk	GR	LU.SES0D.071	N	AMD A50M FCH
AO522-C5Dkk	GR	LU.SES0D.072	N	AMD A50M FCH
AO522-C5Dkk	NL	LU.SES0D.012	N	AMD A50M FCH
AO522-C5Dkk	HU	LU.SES0D.073	N	AMD A50M FCH
AO522-C5Dkk	HU	LU.SES0D.074	N	AMD A50M FCH
AO522-C5Dkk	IL	LU.SES0D.075	N	AMD A50M FCH
AO522-C5Dkk	IL	LU.SES0D.076	N	AMD A50M FCH
AO522-C5Dkk	IL	LU.SES0D.077	N	AMD A50M FCH
AO522-C5Dkk	IT	LU.SES0D.078	N	AMD A50M FCH
AO522-C5Dkk	IT	LU.SES0D.079	N	AMD A50M FCH
AO522-C5Dkk	LU	LU.SES0D.080	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.020	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.021	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.022	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.023	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.024	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.025	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.026	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.027	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.028	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.029	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.030	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.031	N	AMD A50M FCH

Table 7-6. Bluetooth & NB Chipset (Continued)

Model	Country	Acer Part No	Bluetooth	NB Chipset
AO522-C5Dkk	ME	LU.SES0D.032	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.033	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.034	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.035	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.036	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.037	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.038	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.039	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.040	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.041	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.042	N	AMD A50M FCH
AO522-C5Dkk	ME	LU.SES0D.043	N	AMD A50M FCH
AO522-C5Dkk	PL	LU.SES0D.081	N	AMD A50M FCH
AO522-C5Dkk	PT	LU.SES0D.082	N	AMD A50M FCH
AO522-C5Dkk	PT	LU.SES0D.083	N	AMD A50M FCH
AO522-C5Dkk	RU	LU.SES0D.014	N	AMD A50M FCH
AO522-C5Dkk	RU	LU.SES0D.015	N	AMD A50M FCH
AO522-C5Dkk	RU	LU.SES0D.091	N	AMD A50M FCH
AO522-C5Dkk	YU/BA	LU.SES0D.018	N	AMD A50M FCH
AO522-C5Dkk	SI/HR	LU.SES0D.084	N	AMD A50M FCH
AO522-C5Dkk	SI/HR	LU.SES0D.088	N	AMD A50M FCH
AO522-C5Dkk	ZA	LU.SES0D.044	N	AMD A50M FCH
AO522-C5Dkk	ZA	LU.SES0D.045	N	AMD A50M FCH
AO522-C5Dkk	ZA	LU.SES0D.046	N	AMD A50M FCH
AO522-C5Dkk	ES	LU.SES0D.009	N	AMD A50M FCH
AO522-C5Dkk	CH	LU.SES0D.085	N	AMD A50M FCH
AO522-C5Dkk	CH	LU.SES0D.086	N	AMD A50M FCH
AO522-C5Dkk	TR	LU.SES0D.047	N	AMD A50M FCH
AO522-C5Dkk	TR	LU.SES0D.048	N	AMD A50M FCH
AO522-C5Dkk	TR	LU.SES0D.049	N	AMD A50M FCH
AO522-C5Dkk	UK	LU.SES0D.008	N	AMD A50M FCH
AO522-C5Dkk	UK	LU.SES0D.087	N	AMD A50M FCH
AO522-C5Dkk	UA	LU.SES0D.016	N	AMD A50M FCH

Table 7-6. Bluetooth & NB Chipset (Continued)

Model	Country	Acer Part No	Bluetooth	NB Chipset
AO522-C5Dkk	US	LU.SES0D.007	N	AMD A50M FCH
AO522-C5Dkk	US	LU.SES0D.010	N	AMD A50M FCH
AO522-C5Dkk	WW	S2.SES0D.003	BT 3.0	AMD A50M FCH
AO522-C5Dkk	WW	S2.SES0D.004	BT 3.0	AMD A50M FCH

Table 7-7. Battery, Adapter, & Camera

Model	Country	Acer Part No	Battery	Adapter	Camera
AO522-C3Dkk	WW	S2.SES0D.001	3CELL2.2	40W	1.3M
AO522-C58kk	ACLA-ES	LU.SES08.005	6CELL2.2	40W	1.3M
AO522-C58kk	MY	LU.SES08.011	6CELL2.2	40W	1.3M
AO522-C58kk	PH	LU.SES08.006	6CELL2.2	40W	1.3M
AO522-C58kk	RU	LU.SES08.001	6CELL2.2	40W	1.3M
AO522-C58kk	RU	LU.SES08.007	3CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.002	6CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.003	6CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.004	6CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.008	6CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.009	6CELL2.2	40W	1.3M
AO522-C58kk	TH	LU.SES08.010	6CELL2.2	40W	1.3M
AO522-C5Cgrgr	WW	S2.SFH0C.001	3CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.001	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.002	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.003	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.004	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.005	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.006	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.007	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.008	6CELL2.2	40W	1.3M
AO522-C5Ckk	TH	LU.SES0C.009	6CELL2.2	40W	1.3M
AO522-C5Dgrgr	DE	LU.SFH0D.002	6CELL2.2	40W	1.3M
AO522-C5Dgrgr	US	LU.SFH0D.001	6CELL2.2	40W	1.3M
AO522-C5Dkk	AL/MK	LU.SES0D.017	6CELL2.2	40W	1.3M
AO522-C5Dkk	DZ	LU.SES0D.019	6CELL2.2	40W	1.3M

Table 7-7. Battery, Adapter, & Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AO522-C5Dkk	AT	LU.SES0D.050	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.051	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.052	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.053	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.054	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.055	6CELL2.2	40W	1.3M
AO522-C5Dkk	Baltic	LU.SES0D.056	6CELL2.2	40W	1.3M
AO522-C5Dkk	BE	LU.SES0D.013	6CELL2.2	40W	1.3M
AO522-C5Dkk	BE	LU.SES0D.057	6CELL2.2	40W	1.3M
AO522-C5Dkk	BG	LU.SES0D.058	6CELL2.2	40W	1.3M
AO522-C5Dkk	BG	LU.SES0D.059	6CELL2.2	40W	1.3M
AO522-C5Dkk	CA	LU.SES0D.006	6CELL2.2	40W	1.3M
AO522-C5Dkk	CY	LU.SES0D.060	6CELL2.2	40W	1.3M
AO522-C5Dkk	CY	LU.SES0D.061	6CELL2.2	40W	1.3M
AO522-C5Dkk	CZ	LU.SES0D.062	6CELL2.2	40W	1.3M
AO522-C5Dkk	CZ	LU.SES0D.063	6CELL2.2	40W	1.3M
AO522-C5Dkk	CZ	LU.SES0D.089	6CELL2.2	40W	1.3M
AO522-C5Dkk	DK	LU.SES0D.064	6CELL2.2	40W	1.3M
AO522-C5Dkk	DK	LU.SES0D.065	6CELL2.2	40W	1.3M
AO522-C5Dkk	FR	LU.SES0D.011	6CELL2.2	40W	1.3M
AO522-C5Dkk	FR	LU.SES0D.066	6CELL2.2	40W	1.3M
AO522-C5Dkk	FR	LU.SES0D.067	6CELL2.2	40W	1.3M
AO522-C5Dkk	GCTWN	LU.SES0D.005	6CELL2.2	40W	1.3M
AO522-C5Dkk	GCTWN	S2.SES0D.002	3CELL2.2	40W	1.3M
AO522-C5Dkk	DE	LU.SES0D.068	6CELL2.2	40W	1.3M
AO522-C5Dkk	DE	LU.SES0D.090	6CELL2.2	40W	1.3M
AO522-C5Dkk	GR	LU.SES0D.069	6CELL2.2	40W	1.3M
AO522-C5Dkk	GR	LU.SES0D.070	6CELL2.2	40W	1.3M
AO522-C5Dkk	GR	LU.SES0D.071	6CELL2.2	40W	1.3M
AO522-C5Dkk	GR	LU.SES0D.072	6CELL2.2	40W	1.3M
AO522-C5Dkk	NL	LU.SES0D.012	6CELL2.2	40W	1.3M
AO522-C5Dkk	HU	LU.SES0D.073	6CELL2.2	40W	1.3M
AO522-C5Dkk	HU	LU.SES0D.074	6CELL2.2	40W	1.3M

Table 7-7. Battery, Adapter, & Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AO522-C5Dkk	IL	LU.SES0D.075	6CELL2.2	40W	1.3M
AO522-C5Dkk	IL	LU.SES0D.076	6CELL2.2	40W	1.3M
AO522-C5Dkk	IL	LU.SES0D.077	6CELL2.2	40W	1.3M
AO522-C5Dkk	IT	LU.SES0D.078	6CELL2.2	40W	1.3M
AO522-C5Dkk	IT	LU.SES0D.079	6CELL2.2	40W	1.3M
AO522-C5Dkk	LU	LU.SES0D.080	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.020	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.021	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.022	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.023	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.024	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.025	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.026	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.027	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.028	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.029	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.030	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.031	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.032	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.033	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.034	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.035	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.036	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.037	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.038	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.039	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.040	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.041	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.042	6CELL2.2	40W	1.3M
AO522-C5Dkk	ME	LU.SES0D.043	6CELL2.2	40W	1.3M
AO522-C5Dkk	PL	LU.SES0D.081	6CELL2.2	40W	1.3M
AO522-C5Dkk	PT	LU.SES0D.082	6CELL2.2	40W	1.3M
AO522-C5Dkk	PT	LU.SES0D.083	6CELL2.2	40W	1.3M

Table 7-7. Battery, Adapter, & Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AO522-C5Dkk	RU	LU.SES0D.014	6CELL2.2	40W	1.3M
AO522-C5Dkk	RU	LU.SES0D.015	6CELL2.2	40W	1.3M
AO522-C5Dkk	RU	LU.SES0D.091	3CELL2.2	40W	1.3M
AO522-C5Dkk	YU/BA	LU.SES0D.018	6CELL2.2	40W	1.3M
AO522-C5Dkk	SI/HR	LU.SES0D.084	6CELL2.2	40W	1.3M
AO522-C5Dkk	SI/HR	LU.SES0D.088	6CELL2.2	40W	1.3M
AO522-C5Dkk	ZA	LU.SES0D.044	6CELL2.2	40W	1.3M
AO522-C5Dkk	ZA	LU.SES0D.045	6CELL2.2	40W	1.3M
AO522-C5Dkk	ZA	LU.SES0D.046	6CELL2.2	40W	1.3M
AO522-C5Dkk	ES	LU.SES0D.009	6CELL2.2	40W	1.3M
AO522-C5Dkk	CH	LU.SES0D.085	6CELL2.2	40W	1.3M
AO522-C5Dkk	CH	LU.SES0D.086	6CELL2.2	40W	1.3M
AO522-C5Dkk	TR	LU.SES0D.047	6CELL2.2	40W	1.3M
AO522-C5Dkk	TR	LU.SES0D.048	6CELL2.2	40W	1.3M
AO522-C5Dkk	TR	LU.SES0D.049	6CELL2.2	40W	1.3M
AO522-C5Dkk	UK	LU.SES0D.008	6CELL2.2	40W	1.3M
AO522-C5Dkk	UK	LU.SES0D.087	6CELL2.2	40W	1.3M
AO522-C5Dkk	UA	LU.SES0D.016	6CELL2.2	40W	1.3M
AO522-C5Dkk	US	LU.SES0D.007	6CELL2.2	40W	1.3M
AO522-C5Dkk	US	LU.SES0D.010	6CELL2.2	40W	1.3M
AO522-C5Dkk	WW	S2.SES0D.003	3CELL2.2	40W	1.3M
AO522-C5Dkk	WW	S2.SES0D.004	3CELL2.2	40W	1.3M

CHAPTER 8

Test Compatible Components

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire One 522. Compatibility Test Report released by the Acer Mobile System Testing Department.

Microsoft® Windows® 7 Environment Test

AO522

Table 8-1. AO522

Vendor	Type	Description	Part No.
3G			
PLM00023 Huawei	EM770W-Rev 2	Huawei EM770W-Rev2	LC.21300.066
Adapter			
10001081 DELTA	40W	Adapter DELTA 40W 19V 1.7x5.5x11 Black ADP-40 TH AA, LV5 wall-mounted, OBL LF	AP.04001.002
60016453 CHICONY POWER	40W	Adapter Chicony Power 40W 19V 1.7x5.5x11 Black W10-040N1A, wall-mounted LV5 LF	AP.0400H.001
60026861 LEADER	40W	Adapter LEADER 40W 19V 1.7x5.5x11 Black IU40-11190-011S, wall-mounted, LV5+OBL LF	AP.04007.002
Audio Codec			
PLM00004 Conexant	Conexant CX-20584	Conexant Audio Codec CX-20584	LZ.21000.086
Bluetooth			
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0	BH.21100.010
10001018 HON HAI	BT 3.0	Foxconn Bluetooth ATH BU12	BH.21100.011
23707801 FOXCONN TW	BT 2.1	Foxconn Bluetooth BRM 2070 (T77H114.01)	BH.21100.007
Camera			
10001023 LITE-ON	1.3M	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
10001044 CHICONY	1.3M	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
PLM00012 Suyin	1.3M	Suyin 1.3M SY9665SN	AM.21400.068

Table 8-1. AO522 (Continued)

Vendor	Type	Description	Part No.
Card Reader			
PLM00014 ODM	5 in 1-Build in	5 in 1-Build in MS, MS Pro, SD, SC, XD	CR.21500.013
CPU			
60002168 AMD	AMDC50B	CPU AMD - C50 BGA 1.0G / 9W	KC.C0002.500
HDD			
60001922 TOSHIBA DIGI	N160GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.16004.008
60001922 TOSHIBA DIGI	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.25004.005
60001994 WD	N160GB5.4KS	HDD WD 2.5" 5400rpm 160GB WD1600BPVT-22ZEST0, 4K , ML320S-AF SATA 8MB LF F/W:01.01A01 4K drive	KH.16008.028
60001994 WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BPVT-22ZEST0,ML320S-AF, 4K drive SATA 8MB LF F/W:01.01A01 4K drive	KH.25008.029
60002005 HGST SG	N160GB5.4KS	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.16007.026
60002005 HGST SG	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.25007.016
60002005 HGST SG	N250GB5.4KS 7.0	HDD HGST 2.5" 5400rpm 250GB HTS543225A7A384,0J11522, Eagle B7, 320G/P SATA 8MB LF+HF F/W:A60W	KH.25007.020

Table 8-1. AO522 (Continued)

Vendor	Type	Description	Part No.
60002005 HGST SG	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.32007.008
60002005 HGST SG	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.50007.010
60002036 SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1	KH.16001.045
60002036 SEAGATE	N160GB5.4KS	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1	KH.16001.045
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.25001.019
Keyboard			
60004864 DARFON	NT0T_A10B	Keyboard ACER NT0T_A10B NT0T Internal 10 Standard Black Y2010 Acer Legend Texture	KB.I100A.059
60004864 DARFON	NT0T_A10W	Keyboard ACER NT0T_A10W NT0T Internal 10 Standard White Y2010 Acer Legend Texture	KB.I100A.060
LAN			
10017383 Atheros	AR8152L	Atheros AR8152L	NI.22400.050
LCD			
60002215 SAMSUNG	NLED10.1WXGAG	LED LCD SAMSUNG 10.1" WXGA Glare LTN101AT01-A01 LF 200nit 16ms 600:1	LK.10106.002
60003316 AUO	NLED10.1WSVGAGS	LED LCD AUO 10.1" WSVGA Glare B101AW06 V1 LF 200nit 8ms 500:1	LK.10105.002

Table 8-1. AO522 (Continued)

Vendor	Type	Description	Part No.
60003316 AUO	NLED10.1WXGAG	LED LCD AUO 10.1" WXGA Glare B101EW02 V0 LF 200nit 16ms	LK.10105.003
Media Processor			
10001018 HON HAI	Media Processor_broadcom	Foxconn Broadcom BCM970015 Media Processor half Mini-card Flea w/ H.264/VC1/MPEG2 decode Rev 1.0	LA.23700.002
10001018 HON HAI	Media Processor_broadcom	Foxconn Broadcom BCM970015 Media Processor half Mini-card Flea w/ H.264/VC1/MPEG2 decode Rev 1.0	LA.23700.002
10001018 HON HAI	Media Processor_Quartics	Foxconn Quartics QV1721 Media Co-Processor Mini-card TTH130.00 W. H264 decode. Video post processing for internet video streaming. Rev 1.0	LA.23700.001
MEM			
60001993 NANYA	SO1GBIII13	Memory NANYA SO-DIMM DDRIII 1333 1GB NT1GC64BH4B0PS-CG LF 128*16 0.055um	KN.1GB03.034
60002000 UNIFOSA	SO2GBIII13	Memory UNIFOSA SO-DIMM DDRIII 1333 2GB GU6C2303EP0200 LF 128*8 0.065um	KN.2GB0H.010
60002215 SAMSUNG	SO1GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm	KN.1GB0B.035
60002215 SAMSUNG	SO2GBIII10	Memory NONE SO-DIMM DDRIII 1066 2GB dummy 1066 LF	KN.2GB00.001
60002215 SAMSUNG	SO2GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5773DH0-CH9 LF 256*8	KN.2GB0B.030
60024207 KINGSTON	SO1GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um	KN.1GB07.004

Table 8-1. AO522 (Continued)

Vendor	Type	Description	Part No.
60024207 KINGSTON	SO2GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um	KN.2GB07.004
Modem			
10001023 LITE-ON	External USB Lite+LSI modem	External USB Lite+LSI modem	LC.MOD00.001
NB Chipset			
60002168 AMD	AMD A50M FCH	AMD NB Chipset A50M	KI.22600.055
SB Chipset			
9999995 ONE TIME VENDER	N	N	KI.22800.011
Wireless LAN			
10001023 LITE-ON	3rd WiFi 1x1 BGN	Liteon Wireless LAN Atheros HB95 1x1 BGN (HM) WN6601AH	NI.23600.070
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wirelss LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077

CHAPTER 9

Online Support Information

Online Support Information

Introduction

This section describes online technical support services available to help users repair their Acer Systems.

For distributors, dealers, ASP or TPM, please refer the technical queries to a local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers convenient and valuable support resources.

In the Technical Information section users can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- BIOS updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveller's Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all technical queries.

We are always looking for ways to optimize and improve our services, so do not hesitate to direct any suggestions or comments to us.